THE CHEMIST AND DRUGGIST

ESTAB. 1859

REGISTERED AS A NEWSPAPER.

TELEPHONE: CENTRAL 3617.
TELEGRAMS: "CHEMICUS, CANNON, LONDON" (2 Words).

PUBLISHED WEEKLY AT 42 CANNON ST., LONDON, E.C.4.

SUBSCRIPTION, WITH DIARY 20/- PER ANNUM
SINGLE COPIES 9d.

No. 2111 JULY 10, 1920. VOL. XCIII.

THE BEST HOUSE FOR ALL
PHARMACEUTICAL
PRODUCTS

Proprietors of the "Silver Churn" Dairy Preparations.

OLDFIELD, PATTINSON & Co.
TELEGRAMS: "OPIUM." PHONES: City 984 & 4038. MANCHESTER.

'Allenburys'
LIQUID BEEF

Why sell imported meat juices which show a smaller and uncertain profit return?

A good selling line showing 25% protected profit (P.A.T.A)

ALLEN & HANBURYS, LTD
37, LOMBARD ST LONDON, E.C.3.

In bottles with cartons, retailing at 3/6.

TRADE MARK A.D. 1715

Index to Advertisers, pp. 5 & 6.

PACKED DRUGS

AND

TOILET REQUISITES

MAY, ROBERTS'
Illustrated Price List
IS NOW READY

This Catalogue illustrates all our latest Productions and includes also our Price List of Bulk Drugs

SEND A POSTCARD
FOR YOUR COPY

MAY, ROBERTS & CO., Ltd.

7/13 Clerkenwell Road - - LONDON, E.C. 1

And at 16 Westmoreland Street, DUBLIN.

PERFECT SOLUBLE

ESSENCE OF LEMON

IS A PURE FRUIT ESSENCE MADE ENTIRELY FROM LEMONS

It is Guaranteed Free from Terpeneless and Sesquiterpeneless Oil of Lemon, Oil of Limes, Artificial Citral or any other Admixture.

THE ENORMOUS DEMAND FOR THIS PERFECT ESSENCE IS A PROOF OF ITS SUPERLATIVE QUALITY, AND NOTHING APPROACHING IT IN FLAVOUR OR AROMA CAN BE MADE FROM TERPENELESS OILS BY ANY PROCESS.

THE SALE OF LEMONADE DEPENDS ENTIRELY ON THE FLAVOURING USED.

STEVENSON & HOWELL, Ld.

SOUTHWARK ST., LONDON, S.E.1.

Established 1882.

RECONSTRUCTION

DURING the reconstruction period following the outbreak of fire at our Devon Wharf Warehouse, we have availed ourselves of the opportunity to instal the most up-to-date Scientific Machinery in the replacement of any of our manufacturing plant which we considered was capable of being improved upon.

We therefore commend to the attention of the Pharmacist the following products of our manufacture, in which we are confident will be found convincing evidence of the success of our efforts :

MILLED OINTMENTS FLUID EXTRACTS
SOLID EXTRACTS PILL MASSES
LIQUORS

Field's Pharmaceutical Preparations

OF WHICH WE HAVE SOLE MANUFACTURING RIGHTS.

TINCTURES INFUSIONS
TABLETS MEDICINAL TABLETS SACCHARIN

We hold stocks of Crude Drugs, Medicinal Roots, Herbs and Chemicals, selected with scrupulous care.

Inquiries Invited. Special Prices to Large Buyers.

ISSUED FROM THE LABORATORIES OF

C. R. HARKER, STAGG & MORGAN, LTD.

Devon Wharf, Mile End, London, E. 1.

GRAESSER-MONSANTO ✱ GRAESSER-MONSANTO ✱ GRAESSER-MONSANTO

The GRAESSER-MONSANTO CHEMICAL WKS. LTD.

Works: RUABON, N. Wales

London Office: 62 London Wall, E.C. 2.

CARBOLIC ACID CRYSTALS

39/40° Ice and Detached
40° Liquefied

CRESYLIC ACID, ALL QUALITIES

Including Grades
Specially Purified

Ortho-Cresol 28°-30°

Meta-Cresol 98/100 %, 75/85 %, 60 %

Para-Cresol 30°-32°

ORTHO-AMIDOPHENOL
PARA-AMIDOPHENOL
PARANITROPHENOL

ORTHO-CHLORPHENOL
PARA-CHLORPHENOL
ORTHONITROPHENOL

Salicylic Acid

Phones: Ruabon 3, London Wall 4613. Telegrams: "Graesanto Ruabon." "Graesanto, Ave, London." Cables: "Graesanto London."

The GRAESSER-MONSANTO CHEMICAL WKS. LTD.

Works: RUABON, N. Wales

London Office: 62 London Wall, E.C. 2.

PHTHALIC. ANHYDRIDE.

Saccharin, Sol. & Insol.
Phenacetin.
Salicylic Acid.
Aspirin.
Acetanilid.

ANTHRANILIC. ACID.

Vanillin.
Coumarin.
Salicylate of Soda.
Salol.
Chloral Hydrate.

Glycerophosphates, Phenolphthalein.

Paranitrochlorbenzol.

Phones: Ruabon 3, London Wall 4613. Telegrams: "Graesanto Ruabon." "Graesanto, Ave, London." Cables: "Graesanto London."

GRAESSER-MONSANTO ✱ GRAESSER-MONSANTO ✱ GRAESSER-MONSANTO

FORMALDEHYDE — FORMALDEHYDE — FORMALDEHYDE — FORMALDEHYDE — FORMALDEHYDE

FORMALDEHYDE

MANUFACTURED BY

THE

CLEVELAND-CLIFFS IRON CO.

Cleveland, Ohio.

Sole Selling Agents :

VICTOR BLAGDEN & CO.

4 Lloyd's Avenue, London, E.C.3

Telephone : Avenue 6353 (4 lines).
Telegrams : "Blagdenite, Fen, London."

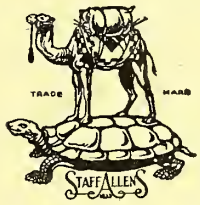
Middlesbro'. Paris. Sydney.

FORMALDEHYDE — FORMALDEHYDE — FORMALDEHYDE — FORMALDEHYDE

INDEX TO ADVERTISERS

ALLEN & HANBURYS, LD., *Liquid Beef* Cover
ALLEN, STAFFORD, & SONS, LD., *Essential Oils* ... 5
ALLIANCE DRUG & CHEM. CO., *Chemicals* xiii
ALLIANCE EXPORT & IMPORT CO., LD., *Cod Liver Oil* ... xxxix
AMSTERDAM QUININE WORKS ... xviii
ANDREW, A. R., *Proprietaries, &c.* xxv, xxvi
ANGLO-AMERICAN PHARMACEUTICAL CO., LD., *Proprietary* ... xxiv
ANGLO-FRENCH DRUG CO., LD. ... xxii
ANGLODOL, LD., *Dental Paste* ... 24
ANZORA PERFUMERY CO., LD., *Hair Cream* 27
ARECO, LD., *Toilet Preps.* ... 25
ARRIGHI, E. S., *Clinical Thermometers* lviii
ATKINSON, J. & E., LD., *Prospectus Annoancement* ... 13
AYRTON, SAUNDERS & CO., LD., *Wholesale Druggists* ... 15
BAILEY, ROBERT, & SONS, *Surgical Dressings* ... 43
BAKER, PARSON, C., *Chemists' Valaer* Col. Supp.
BANDOENG QUININE FACTORIES ... xviii
BANISTER STREET WORKS, LD., *Machinery* xlix
BATTLE, MALTBY & BOWER, *Sheep Dips* ... liv
BEECHAM, THOMAS, *Pills* ... xxvii
BEETHAM, M., & SON, *La-Rola* ... 32
BELL, J., & CROYDEN, LD. ... Text
BELDAM TYRE CO., LD., *Sponges* ... lxiii
BENZOATES, LD., *Drugs* ... iv
BERDOE & FISH ... Col. Supp.
BERK, F. W., & CO., LD. ... xiii
BERRY'S, J. B., SONS, CO. INC., *Pet. Prods.* ... xxxiv
BERTON, ARTHUR, LD., *Thermometers* ... lx
BISHOP, ALFRED, LD., *Fruit Saline* xxxvii
BLACKIE, ROBERT, *Ointment, &c.* ... liii
BLAGDEN, VICTOR, & CO., *Chemicals* 4, 7, ii
BLYTHE, W., & CO., LD., *Epsom Salts* ii
BOAKE, ROBERTS, A., & CO., LD., *Essences* ... xlii
BOURJOIS, A., & CIE, LD., *Face Powder* 32
BRADSTREETS (BRITISH), LD. ... xiv
BRITISH CELLULOSE & CHEMICAL MFG. CO., LD., *Calcium Carbide* ... viii
BRITISH DIAMALT CO., LD. ... xxxix
BRITISH DRUG HOUSES, LD., *Toilet* ... Cover
BRITISH DYESTUFFS CORPORATION, LD. ... v
BROMAGE, G., & CO., *Ess. Oils, &c.* ... 23
BROOKS, PEEL & CO., LD., *Coll. Tubes* li
BROWNING, THE WM., CO., LD., *Petroleum* ... 22
BULL, D. W., *Capsules* ... Text
BURGE, WARREN & RIDGLEY, LD., *Brushes* 41
BURGOYNE, BURBIDGES & CO., *Toilet Preps.* ... xli
BURKETT, SHARP & CO., LD., *Chemicals, &c.* ... viii
BURNSIDE & CO., *Eucalyptas* ... xvii
BURROUGH, J., LD., *Absolute Alcohol* Text
BURROUGHS WELLCOME & CO. ... 47
BURROW, W. & J., LD., *Mineral Waters* xxxvi
BURT, BOULTON & HAYWOOD, LD. ... 48
BUSH, BEACH & GENT INC., *Chemicals* ... iv
"C. CURE," LD., *Proprietary* ... xxviii
CALLARD & CO., *Vitmar* ... xxxix
CALNAN, W. H., & CO., *Perfumery* ... 24
CARAVEL CO., *Chemicals, &c.* ... vi
CARMICHAEL, F. J., & CO., *Camomiles* xiii
CARRERAS, A. & E., *Toilet* ... 28
CARTER, R. E., LD., *Photo Albums* ... lii
CASSON CHEMICAL CO., LD., *Cold Cream* 23
CELLOPHANE CO., *Wrapping Material* ... lix
CENTUPLE MNFG. CO., *Bottle Covers, &c.* liii
CEPHOS, LD., *Proprietary* ... xxv
CHATELAIN, J. L., *French Proprietaries* xxv
CHEMICAL WORKS, BRUGG, LD. ... xix
CHIESMAN, F., & CO., *Olive Oil, &c.* xxxv
CHRISTY, T., & CO., *Shampoo* ... i, xliii
CLARK, C. S., *Cachets* ... xiii
CLAYTON ANILINE CO., LD., *Chemicals* iii
COAL BY-PRODUCTS CO. ... xxx
COLEMAN & CO., *Wincarnis* ... xxxviii
COLLEGE OF PRECEPTORS ... lviii
CONDUIT, FRANK A. ... lvi
CONNELL, A., & CO., *Toilet* ... 28
COOK, E., & CO., LD., *Soaps* ... 39
COOPER LABORATORY, *Cascara Tablets* ... 8
COOPER, SON & CO., LD., *Cachets* ... xliii
CRAMPTON, J., & CO., LD. ... xxxvi
CUPAL, LD., *Vanishing Cream* ... 48
CUXSON, GERRARD & CO., LD. ... 19
C.V.O. CHEMICAL WORKS, LD. ... xxxiv
DAILY MIRROR ... 42
DAVENPORT, J. T., LD., *Chlorodyne* ... xxix
DAVIS, W., *Shopfitting* ... xlviii
DE VILRISS CO., LD., *Atomisers, &c.* xliv
DEARBORN, LD., *Toilet Specialities* ... 34
DEE OIL CO., LD., *Petroleum Jelly* xxxii
DELPHINUS MANFG. CO., *Toilet Preps.* ... 36
DEPRETER, A. E., *Brashes, &c.* ... 40
DICKESON, R., & CO., *Medicinal Snuff* xliii
DUDLEY & CO., *Cash Tills* ... lvi
DUN, R. T., *Capsules* ... xxvi
EASTERN & RUSSIAN TRADING CO., LD. ... xx
EASTERN TRADING CO., *Toilet* ... 28
EDGE, W., & SONS, LD., *Movol* ... xxviii
ELLIOTT OPTICAL CO., *Optical Goods* ... lx
E.S. BOX 11/7F., *Agencies Wanted* ... xvi
EVANS SONS LESCHER & WEBB, LD., *Hawley's Insect Killer* ... lv
EVAN-WILLIAMS CO., LD., *Shampoo* ... 26
FABER, A., & CO., *Bay Rum* ... 26
FARROW & JACKSON, *Filters* ... xlii
FASSETT & JOHNSON, *Shaving Cream* ... 35
FENTIMAN, A. G. ... lviii
FERRER, R., LD., *Ess. Oils* ... 22
FIELD, C. W., LD., *Cream of Tartar, &c.* vii
FINK, F., & CO., *Gams* ... xliii
FORD, SHAPLAND & CO., LD., *Printing* ... lii
FOREST GATE CHEMICAL CO., *Packers* ... lix
FRENKEL, L., *Olive Oil* ... xxxiv
GARRATT, J. E., *New-skin* ... xxviii
GIGNOUX FRERES & BARBEZAT ... xxi
GILLARD, GORDON, LD., *Eucalyptol* ... xvii
GOUGH, KIDSTON & CO., *Chemicals* ... ix
GOWER, J., *Books* ... Col. Supp.
GRAESSER-MONSANTO CHEMICAL WORKS, LD. ... 3
GREEFF, R. W., & CO., *Chemicals* ... 8, 9
GUILDHALL CORR. PAPER CO. ... lix
HAMMOND, JEFFERY & CO., *Chemicals* ... vi
HAMPSHIRE, F. W., & CO., *Fly-catchers* liv
HANCOCK'S, LD., *Sundries* ... xliv
HARKER, C. R., STAGG & MORGAN, LD., *Pharmaceutical Preparations* ... 2
HARWOOD BROS., *Pipes* ... lviii
HENRY, A. C., *Chemicals* ... xxi
HERTZ & CO., *Florozon Sprayers, &c.* ... xl
HEYMANS, RENE, *Douche Fittings* ... xlvi
HILGER, ADAM, LD., *Refractometers* ... 44
HOFFMANN-LA ROCHE CHEMICAL WORKS LD., *Alkaloids, &c.* ... vi
HOLLANDS DISTILLERY, LD., *Ess. Oils* ... 22
HOLLIDAY, L. B., & CO., LD., *Chemicals* xi
HOLT, THOMPSON & CO., *Salicylic Acid* v
HOOD, C. I., & CO., LD., *Medicines* xxvii
HOUGH, HOSEASON & CO., LD. ... xxxi
HOVENDEN, R., & SONS, LD., *Toilet Preps.* ... 35
HUBBUCK, T., & SON, LD., *Oxide of Zinc* ... ix
HUISKING, C. L., INC., *American Drugs* xvi
HYDE, A. V., *Advtg. Agent* ... liii
INGRAM, J. G., & SON, LD., *Enemas, &c.* xlv
JACKEL ET CIE (of Paris), LD., *Hair Cream* 26

[*Continued overleaf.*



For PURITY and STRENGTH

ALLEN'S ESSENTIAL OILS

Highest Awards:
BRUSSELS
St. LOUIS
CHICAGO

Samples and Prices to all Wholesale Buyers.

Established 1833

STAFFORD ALLEN & SONS, LTD.

COWPER STREET, FINSBURY, LONDON, E.C. 2.

Telegrams: "Persic, Finsquare, London."

Telephone: Clerkenwell 2100 (4 lines)

INDEX—cont.

JACKSON CO., *Toilet Preps.* ... 31
JEWSBURY & BROWN ... Text
JOB BROS., *Cod Liver Oil* (Newfoundland) 16
JOSEPHS, PHILIP, & SONS, LD. ... Col. Supp.
JUNG FRATELLI, *Ess. Oils* ... 21
KAY BROS., LD., *Fly-catchers* ... liv
KAYE, G. E., LD., *Ess. Oils* ... 20
KENT, G. B., & SONS, LD., *Brushes* ... 41
KERFOOT, T., & CO., LD., *Castols* ... 17
KHAMBATA, J., & CO., *Tartaric Acid* ... vii
KIDSTON, W. M., & CO., *Pet. Jelly* ... xxxiii
KNOX-WALKER, J., & CO., LD. ... 28
KUTNOW, S., & CO., LD. ... xxxviii
LACOSTE ET CIE, *Dentifrice* ... 37
LANE, C., & SONS, *Chemicals* ... ix
LANE HALL, R., & CO., LD., *Synthetics* 20
LANG, JULES, & SON, *Glassware* ... 38
LANKSHEAR, WICKSTEAD & CO., LD. ... viii
LAPORTE, B., LD., *Chemicals* ... xii
LATHROP, H. R., & CO. INC., *Wild Cherry Bark* ... xvii
LAVISTA, F., & FREEMAN, *Brushes* ... 40
LAWRENCE, E., & CO., "*Gets-it*" ... xv
LECONTE, R., & CO., *Capping Skins* ... lix
LEICESTER RUBBER CO., "*Mend-a-Tear*" xliv
LEIGHTON LABORATORIES, LD., *Shampoo* xliii
LEVERMORE, A., & CO., LD., *Precip. Chalk* ... xliii
LEWIS BATLEY & CO., *Chemicals* ... liii
LEWIS, H. K., & CO., LD., *Books* ... 10
LEYSELL ENGNR. CO., *Machinery* ... lix
LICENSES & GENERAL INSURANCE CO., LD. xliii
LILLY, ELI & CO., *Tablets, Dental Lotion* ... Cover
LINARIS, LD., *Toilet Preps.* ... 36
LINCOLN & MIDLAND COUNTIES DRUG CO., LD. ... xxiii
LINTON, HUBBARD & ANDREW, *Saccharin, &c.* ... xiii
LLOYD, E., *Safety Razors, &c.* ... lxii
LOFTHOUSE & SALTMER, LD., *Health Salts* xxxvi
LONABARC TRADING CO., *Essential Oils* 21
LONDON COLLEGE OF PHARMACY ... lviii
LONDON HYGIENIC CHEMICAL CO., LD., *Londovus* ... 46
LONDON RUBBER CO. ... xliv
LUMEX, LD., *Photographic* ... lii
LYSOL, LD., *Toilet Preps.* ... 29
MACAJONE, G., *Ess. Oils* ... 21
M'GLASHAN, D., *Abdine* ... xiii
MACANDREWS & FORBES, LD., *Liquorice* xiv
MACFARLAN, J. F. & C., *Alkaloids* ... iv
MACHON'S COMFORTINE CO. ... xxiii
MAGNUS, MABEE & REYNARD INC., *Ess. Oils* 20
MALMBERG, K., *Petroleum Jelly, &c.* xxxii, xxxiii
MARKT & CO., LONDON, LD., *Sponges* lxii
MARTIN & CO., *Toilet Specialists* ... 28
MARTINDALE, W., *Compressed Moss* ... xlvi
MASON BROS. & CHAPMAN ... xliv
MAW, S., SON & SONS, LD. ... 11
MAY, ROBERTS & CO., LD., *Price List* Cover
MAYFAIR CHEMICAL CO., *Vacuum Flasks* 1
MEADE-KING, ROBINSON & CO., LD. xxxii
MEDEM, OTTO & CO., *Drugs* ... xx
MEHTA BROS., *Drugs, &c.* ... xvii
MENDINE CO., *Cement* ... lviii
MILLAR, A., & CO., LD., *Quinine Wine* xxxix
MILLS, H., & SONS, *Shopfittings* ... xlviii
MILNER, J., & CO., *Razors* ... lxii
MILNER'S CHEMICAL CO., *Straw Hat Cleaner* ... lx
MIRFIN, J., & SON, LD., *Safety Razors* lxii
MORRIS, LITTLE & SON, LD., *Sheep Dips, &c.* ... liii
MORRISON, R., & CO., *Chemicals, &c.* ... x
MOUSLEY, F. A., *Beaverpuf* ... 32
MURPHY, J. F., *Antiphlogistine* ... xxx
MYERS, LUMOS & CO., *Combs, &c.* ... 41
NEWBERY, F., & SONS, LD., *Sundries* ... 36
OAKEY, JOHN, & SONS, *Knife Polish* ... lx
OLDFIELD, PATTINSON & CO., *Pharm. Preps.* ... Cover
OPPENHEIMER, A., *Battles* ... lvi
OSBORNE, GARRETT & CO., LD., *Toilet Preps.* ... 14
P.A.T.A. ... xxiii
PAGE, CHAS., & CO., LD., *Chemicals* viii
PARKE, DAVIS & CO., *Tooth Paste* ... 30
PARNALL & SONS, *Shopfittings* ... xlviii
PEAT PRODUCTS (SPHAGNOL), LD. ... xxvi
PERMOL PRODUCTS CO., LD., *Dental Cream* 37
PERRY & HOPE, LD., *Malt Extract* ... 16
PHARMACEUTICAL LANOLINE CO., *Lanoline* xxxiv
PHILIP, CHAS., *Price List* ... xxiv
POTTER & CLARKE, LD., *Floral Cachous* ... 18
POWELL, F. W., *Drugs and Chemicals* ... 6
PRESCOTT & CO. ... Text
PRESTON'S LIVERPOOL DIST. CO., LD. xxxix
PRICE, A. S., & CO., LD. ... xiii
RAOUL FRERES, *Chemicals, &c.* ... vi
RAPHAELS, LD., *Spectacles, &c.* ... lxi
RAWORTH, J. E., & MOSS, *Pat. Agents* lviii
RAYMENT, K. ... xviii
REDDGRAVE, BUTLER & CO., *Paraffin* lxiv
REYNOLDS & BRANSON ... Text
ROBERTS' PATENT FILLING MACHINE CO. xlix
ROQUES, FERDINAND, *Alkaloids, Cacodylates* ... xx
ROSE, J. L., *Pyrogallic Acid* ... viii
ROWLAND, A., & SONS, *Change of Address* ... xxvi
ROYAL PHARMACEUTICAL CO., LD. ... xxi
ROZEN, L., & CO., *Chemicals* ... vii
RUBECK, H., *Thymol* ... Text
RUCH, A., & CO., LD., *Bottles* ... xlii
SACCHARIN CORPORATION, LD., *Novocain* v
SANAGEN CO., LD., *Nerve Food* ... 45
SANITAS CO., LD., *Disinfectants* ... Text
SCHOLL MFG. CO., LD., *Foot Appliances* xlvi
SCHUTZE, F., & CO., LD., *Puffs* ... 28
SCURR, C. A., *Correspondence Course* lviii
SCURR, H. W., *Manicure Requisites* liv
SEQUARINE, LD., *Proprietary* ... xxv
SHADEINE CO., *Hair Dyes* ... xliii
SIMOND, S. D., & CO., LD., *Tapan* ... lvi
SMITH & CO., *Fly Catcher* ... liv
SMITH, T. & H., LD., *Drugs* ... ii
SOCIETEIT VOOR CHEMISCHE INDUSTRIE KATWIJK, *Caffeine, &c.* ... xxi
SOUTHALL BROS. & BARCLAY, LD. Col Supp.
SPATULA PUBLISHING CO., *Books* ... 1
SPENCE, H. B., *Scathers* ... xliv
STARUP, G. C., CHEMICAL WORKS ... xx
STEARNS, F., & CO., *Pepsins* ... xv
STEPHENS BROS. & CO., *Ess. Oils* ... 23
STEPHENSON, R. A., LD., *Gummed Tape* li
STERNS, LD., *Oils, Petroleum, &c.* xxxiii
STEVENSON & HOWELL, LD. ... 1
STURGE, J. & E., LD. ... xii
SUTCLIFFE & BINGHAM, *Kkavah Salts* xxxvii
SUTCLIFFE VENTILATING & DRYING CO. xlix
SUTER, W., & CO., *Chemicals* ... vii
THACKRAY, C. F., *Cottonwool, &c.* ... 12
THERAPEUTIC FOODS CO. ... xxxix
THORNLEY, S., LD., *Methyl. Spirit* xxxiii
TIMPSON, JOHN, & CO., LD., *Baby Powder* 34
TOMODA & CO., *Japanese Chemicals, Drugs* ... xv
TOOMBS, A., & CO., *Capping Skins* ... lx
TRANSCONTINENTAL AGENCIES, LD. xxxviii
TURNER BROS. ASBESTOS CO., LD. ... xlviii
VENESTA, LD., *Coll. Tubes* ... 1
VERNON POWELL, LD., *Combs* ... 40
VISCOSE CO., LD., *Bottle Cappings* ... li
WAIDE, THOS., & SONS, *Chemists' Printing* ... xxx
WALLACE HEATON, LD., *Photographic* ... lii
WALTON, T. H., & CO., LD., *Saccharin* xiv
WELLS, A. C., & CO., *Bang Pour* ... xxxiv
WESTERN TABLET CO., LD., *Tablets* ... 8
WESTMINSTER COLLEGE OF PHARMACY lviii
WHIFFEN & SONS, LD., *Emetine Salt* ... xi
WHITAKER & CO., *Hat Dyes, Household Dyes* ... lvii
WILLIAMS BROS. & CO., *Colours* ... xlvii
WILLIAMSON BROS., *Sundriesmen* ... 41
WILLIS, LOW & DRUIFF, *Perfume Brick* 37
WINTER, E., & CO., LD., *Silver Leaf, &c.* xv
WILCOX, JOZEAU & CO. ... Text
WOOLACOTT, W. G., *Surgical* ... xliv
WRIGGLESWORTH, E. H., LD. ... liv

Phone 333—334 Hop

FOR

Chemicals

Pharmaceutical & Technical.

Sole London Agent: CHRISTIAN J. MOHN'S NORWEGIAN COD LIVER OIL.

F. W. POWELL (M.P.S.),

85 Blackfriars Road, London, S.E.1.

Tel. Add. :—
"Aniseed, Friars, London."

ACETIC ACID ACETIC ACID ACETIC ACID ACETIC ACID ACETIC ACID ACETIC ACID

ACETIC ACID

80% PURE
99/100% GLACIAL
80% TECHNICAL

INQUIRIES SOLICITED

For Spot or Forward Delivery.

Victor Blagden & Co.

4 Lloyds Avenue, London, E.C. 3

Telephone : Avenue 6353 (4 lines). Telegrams : "Blagdenite, Fen, London."

MIDDLESBRO'. PARIS. SYDNEY.

ACETIC ACID ACETIC ACID ACETIC ACID ACETIC ACID ACETIC ACID ACETIC ACID

QUININE

MAARSSEN

QUININE and QUININE SALTS.

Unexcelled in Uniformity of Quality, Brilliant Crystallisation and Purity of Colour.

CINCHONINE, CINCHONIDINE, QUINIDINE, and their SALTS.

MANUFACTURED BY

NEDERLANDSCHE KININEFABRIEK, MAARSSEN, HOLLAND

AGENTS.— R. W. Greeff and Company, Thames House, Queen Street Place, LONDON, E.C.4.

CASCARA SAGRADA TABLETS

(2 grains.) (Sugar-coated.)

IN S/C BOTTLES OF

25 at 3/- per dozen bottles
50 at 5/- " "
100 at 8/6 " "
In bulk at 4/6 per 1000

TERMS—NET, without engagement, Carriage Paid.

Customer's name and address on orders of six dozen bottles and upwards.

Chemicals & By-Products, Ltd.

INCORPORATING THE

COOPER LABORATORY, WATFORD.

Aspirin Tablets

We use the best Aspirin only in their manufacture. We guarantee each tablet to contain 5 grains Aspirin.

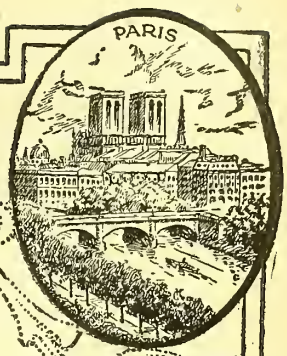
Bottles of 25	...	4/6 per doz.
" 50	...	7/6 "
" 100	...	13/6 "
Bulk ...	...	8/- per 1000

Chemists' own name and address on all packed goods.

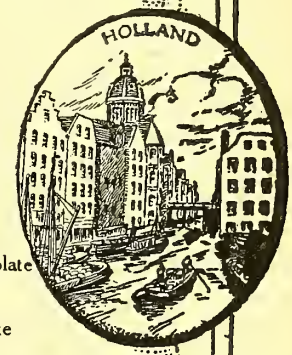
Phenacetin Tablets Cascara Tablets
Soda-mint Tablets Lemonade Tablets
etc., etc.

We manufacture for the trade. Wholesale buyers please write for quotations for bulk tablets of all kinds.

Western Tablet Co. Ltd.
106 Church St., Kensington, W. 8.



PHARMACEUTICAL
AND
PHOTOGRAPHIC PRODUCTS.



R. W. GREEFF & Co. offer at lowest prices the following products:

(WHOLESALE QUANTITIES ONLY)

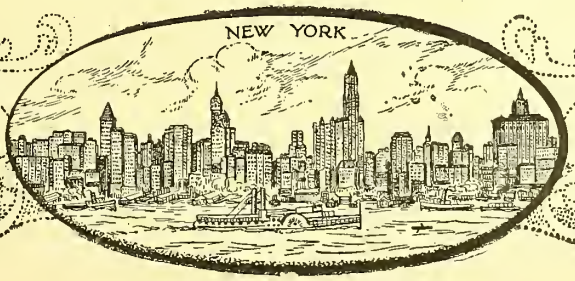
Acetanilid	Guaiacol Carbonate	Potash Sulpho-Guaiacolate
Acetone	Hexamine	Quinidine and Salts
Acetyl Salicylic Acid	Homatropine	Quinine and Salts
Amidol	Hydroquinone	Quinine Ethyl Carbonate
Amidopyrin	Ichthyol Substitute	Quinoidine
Barbitone	Kelene	Resorcin
Benzoic Acid	Lemon Oil	Saccharin
Benzamine Hydrochlor	Lithia Carbonate	Salicylic Acid
Benzamine Lactate	Lecithin	Salicylate of Soda
Benzo Naphthol	Menthol	Salol
Beta Naphthol	Mercurials	Soda Benzoate
Bromides	Methylene Blue Medicinal	Soda Hyposulphite
Calcium Lactate	Methyl Salicylate	Soda Sulphite Anhydrous
Chloral Hydrate	Metol	Sugar of Milk
Cinchonine and Salts	Paraldehyde	Tannic Acid Leviss
Cinchonidine and Salts	Peppermint Oil	Tannin Albuminate
Citric Acid	Pepsine	Tartaric Acid
Cocain	Peptone	Terpineol
Creosote Carbonate	Phenacetin	Terpine Hydrate
Eucalyptus Oil	Phenazone	Theobromine
Gallic Acid	Phenolphthalein	Thymol Crystals
Glycerophosphates	Pyrogallic Acid	Vanillin

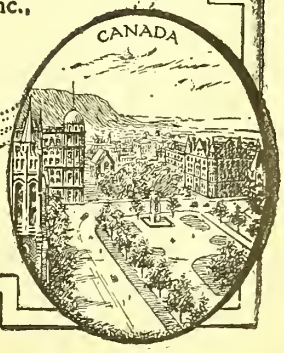
R. W. Greeff & Co.

THAMES HOUSE, QUEEN STREET PLACE,
LONDON, E.C.4.

MANCHESTER BRANCH
Lloyd's Bank Buildings,
King Street.

NEW YORK AGENTS
R. W. Greeff & Co., Inc.,
78, Front Street.





Nearly Ready. 17th Edition, Vol. I. 27/- net; postage 6d.

It is over five years since the last "Martindale" was published. During the years of war the changes in Therapy and Chemistry have been enormous. The labour of revision has been great, but this, as well as the special difficulties of production at the present time, have been overcome.

THE EXTRA PHARMACOPŒIA

By MARTINDALE and WESTCOTT.

Vol. II. will be issued later.

The latest methods of Treatment inspired by the Teachings of Peace and a comprehensive Digest of War Therapy.

Several thousand Extracts and Summaries from literature, Medical and Scientific, down to the first months of 1920.

A unique and up-to-date Review of the Trend of Modern Medicine.

No subject of interest to the Profession escapes the Authors: the latest in Drugs, Chemicals, Organotherapy, Vaccines, Vitamines, etc.

Full and Complete Index makes reference rapid and easy.

The First Book of its kind since the War.

Drugs and other therapeutic agents used in the latest methods of Treatment are to be found under such headings as—

ACID. HYPOCHLOROS (Eusol, Eupad, Chloramines, Dakin's Solutions, etc.)
ACRIFLAVINE.
ANTIMONY COMPOUNDS (Antim. Sod. Tart., etc.)
ARSENO. BENZOL.
BENZYL BENZOATES.
COLLOIDAL METALS.
DETOXICATED VACCINES.
EMETINE BISMUTH IODIDE.
PEPTONE INJECTIONS in Asthma.
PITUITARY PREPARATIONS.
PROFLAVINE.
QUININE in Malaria Relapses.
THYROXIN.
VITAMINES.

Descriptive Leaflet on application.

London: H. K. LEWIS & CO., Ltd., 136 Gower Street, W.C.1.

Publishing Office: 28 Gower Place, W.C. 1.

Maw's Page

NUMBER 456.
JULY 10, 1920.

S. MAW, SON & SONS, LTD • 7-12, ALDERSGATE ST. LONDON, E.C.1.

'The Young Visiter'

Spring has all the impetuosity of youth. It has a habit of springing unawares upon unsuspecting Winter. It bursts in upon the year with all the abandon of the modern flapper.

One day the wind snarls angry little messages into one's ears and the next one sees an almond tree flaunting its butterfly blossoms at the base of some upstanding sombre fir.

(Having ascended on the pinions of poetry I have now to descend to mundane matters of commerce. If there is aught of bathos in what follows I pray your pardon.)

It is the suddenness of Spring that concerns the chemist.

For as surely as the crocus peeps with its advent so surely does the protruding pimple peep too.

When the nursery man begins to show packets of seeds on his counter the chemist puts the bottles of blood-mixture in his window.

But, seriously, there's a host of Spring needs that you should be preparing for.

Drugs, health salts, holiday requisites — well, you, from experience, can amplify the list. The point is that it is well to borrow a maxim from the Boy Scouts and—Be Prepared.

Are you completely equipped for your reinforcement of the Spring Stock—that is to say, have you already got into touch with the House of Maw in the matter?

There are all sorts of lists and catalogues which are designed for your convenience issued by this House.

Make your business library complete by this possession. A postcard request will bring them by return. Why not write that postcard now?

Discus

Suspensory Bandages
Four Good Selling Lines

WE give particulars of four good patterns for the coming Summer:

The "Beaufort." This is the premier pattern, perfect in shape and absolutely satisfactory for general use. Net bag, with woven elastic edges and elastic bridge in front, giving perfect freedom of movement. It does not require any adjustment.

Fig. 3089.	Cotton, small and medium	26/6	per dozen.
,, 3090.	,, large	29/6	,, ,,
,, 3091.	Silk, small and medium	54/-	,, ,,
	,, large	69/-	,, ,,

The "No. 11." A thoroughly good pattern, where understraps are required. The bag is specially shaped, giving a maximum degree of comfort. It can be washed without harm.

Small, medium and large ... ... 21/- per dozen.

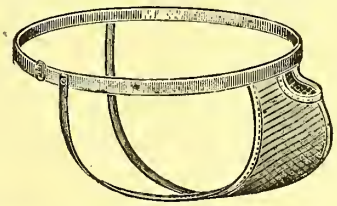
The "Oxonian." This Suspender is a perfect example of the draw tape pattern. The bag is well shaped and there is an elastic insertion in the waistband. The draw tapes enable considerable adjustment to be made in the size of the bag.

Cotton, small and medium	33/-	per dozen.
,, large	34/6	,, ,,
Silk, small and medium	36/-	,, ,,
,, large	45/-	,, ,,

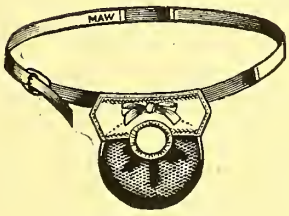
The "Tropical." A Suspender specially designed for tropical countries and hot weather. There is no elastic in it, and the bag and waistband are made in cellular material, which ensures complete ventilation. It is cool, light and porous. This Suspender is fitted with both understraps and draw tapes. The buckle on the waistband is detachable, so that the entire article can be boiled without harm.

Small, medium and large ... ... 18/6 per dozen.

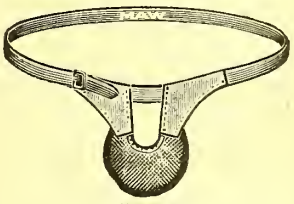
All these Suspenders are packed singly in boxes.



The "No. 11."



The "Oxonian."



The "Beaufort."

TELEPHONE: CITY 7 (PRIVATE BRANCH EXCHANGE). TELEGRAMS: "ELEVEN, CENT, LONDON."

CHAS. F. THACKRAY

Surgical Dressings Department

LEEDS

DELIVERY FROM STOCK.

Subject to being unsold.

ABSORBENT COTTON WOOL.

1-lb. Rolls, interleaved.

14	28	56	112 lb. lots.
2/-	1/11	1/10	1/9 per lb.

ABSORBENT WHITE LINT.

1-lb. Rolls.

14	28	56	112 lb. lots.
4/11	4/10	4/9	4/8 per lb.

WAR SURPLUS

Carriage paid on orders of £5 value.

Samples sent on application.

BORIC LINT.

In 1-lb. Rolls.

14	28	56	112 lb. lots.
3/3	3/2	3/1	3/- per lb.

BANDAGES.

White Open Wove, 6 yards.
No. 1 Quality, 1″ to 6″ wide.

1	5	10 gross lots.
18/-	17/-	16/- per inch per gross.

No. 2 Quality, 1″ to 3″ wide.

1	5	10 gross lots.
14/-	13/-	12/6 per inch per gross.

Telephone : 20085 Leeds
(Private Branch Exchange).

Telegrams :
"Aseptic Leeds."

Preliminary Announcement.

J. & E. ATKINSON LTD.

PERFUMERS AND FINE TOILET SOAP MANUFACTURERS

CAPITAL.

Authorised.		*Issued or Included in Present Issue.*
£150,000	in Six per Cent (free of Income-tax) Cumulative Preference Shares of £1 each	£50,000
£300,000	in Ordinary Shares of £1 each	£250,000
£450,000		£300,000

A PROSPECTUS offering 100,000 of the above ORDINARY SHARES at 35s. per share, will be published shortly and will show, *inter alia*, that :—

1. The Issue is made by GEORGE CLARE and Co., Ltd.

2. The Company owns a steadily progressive proprietary business established in 1799, more than one half of its trade being for Export.

3. For 1919 the Company declared a dividend of 20 per cent., free of Income-tax, and could have paid as much as 35 per cent, free of Income-tax. The Directors estimate that dividends can be maintained at 20 per cent., free of Income-tax, with a possible increased distribution if E.P.D. is reduced or sales continue to expand as they have in recent years.

4. The turnover of 1919 exceeded that of 1918 by 36 per cent. and for the first five months of 1920 there is a further increase of 47 per cent. over the corresponding period of last year.

5. At the price of issue and on the basis of last year's dividend the shares yield over 16 per cent. per annum.

Prospectuses and Forms of Application are obtainable from Barclays Bank, Ltd., City Office, 170 Fenchurch Street, E.C., Head Office, 54 Lombard Street, E.C., and Branches; The London Joint City and Midland Bank, Ltd., Threadneedle Street, E.C., and Branches; Arthur B. Winch and Co., 58 Lombard Street, E.C.; Messrs. Clifford Turner and Hopton, Solicitors, 80 Finsbury Pavement, E.C. 2, and

GEORGE CLARE AND CO., LTD.

C. DAMSCHINSKY'S

AMERICAN LIQUID DYE.

Single Preparation for the Hair and Beard.

MADE IN
FIVE NATURAL SHADES,
BLONDE, LIGHT BROWN,
BROWN, DARK BROWN,
AND BLACK.

2/- Size 15/- per doz. net.

3/- „ 22/- „ „ „

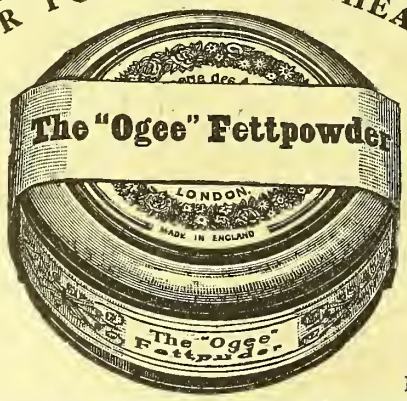
This excellent Dye has an enormous Sale all over the World.

SIMPLE TO USE.
WILL DYE
RED, GREY OR FADED HAIR
TO THE DESIRED SHADE
IN A FEW MINUTES.
IT IS NOT A BLEACH.
WILL NOT DYE DARK HAIR
LIGHTER.

From all Wholesale Houses or direct from sole British Agents :

OSBORNE, GARRETT & CO., LIMITED,
LONDON, BIRMINGHAM AND GLASGOW.

THE "OGEE" FETTPOWDER.
THE Ogee
THE Ogee
THE PREMIER POWDER FOR THEATRICAL USE.



In
White,
Rose,
Natural
and Rachel.

PRICE
12/6
PER DOZEN.

PROPRIETORS OF
THE CELEBRATED "OGEE" BRAND OF GREASE PAINTS,
AND THEATRICAL PERFUMERY.

OSBORNE, GARRETT & CO., LIMITED,
BIRMINGHAM. **LONDON, W.** GLASGOW.

AYRTON'S WEEKLY PAGE 15

Read the following Testimonials for Ayrton's

Cocoanut Oil Shampoo:

Miss PEGGY O'NEIL, the charming American Actress, writes:

"I have used same, and find it very beneficial, and shall be only too glad to let my friends know what a delightful Shampoo it is."

PEGGY O'NEIL

Miss PHYLLIS NEILSON TERRY, writes:

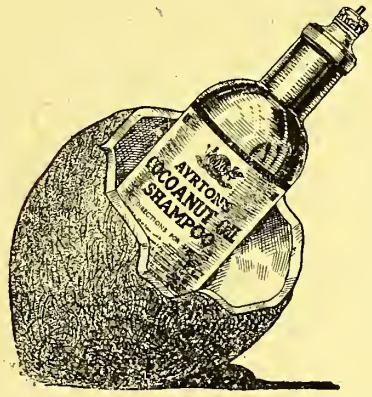
"I find it most excellent for the hair."

PHYLLIS NEILSON TERRY

Mme. ANNA PAVLOVA, says:

"Madame has had the opportunity to use that product, and finds it very good."

There is no secret about Ayrton's Cocoanut Oil Shampoo



British and Best

Ayrton's Cocoanut Oil Shampoo is packed in 4oz. bottles with sprinkler-top, and is handsomely labelled and cartoned.

We can supply you with Showcards, Window Posters and Circulars.

P.A.T.A. Retail - - - - -	2/3	per bottle
Wholesale - - - - - -	16/6	per dozen

Order from your Wholesaler, or direct from

AYRTON, SAUNDERS & CO. LTD

Manufacturing Chemists **34 Hanover Street, LIVERPOOL**

JOB BROTHERS

GUARANTEED PURE GENUINE

NEWFOUNDLAND NON-FREEZING MEDICINAL COD LIVER OIL

IS THE FINEST OIL PRODUCED

It is perfection in colour, smell, taste and absolute purity.
Manufactured from the finest fresh Cod Livers on same day as fish caught.

WHOLESALE ONLY

JOB BROS., Manufacturers, Tower Building, LIVERPOOL

Telegraphic Address: "JOB LIVERPOOL" Tel.: 1039 CENTRAL

And at ST. JOHN'S, N.F. Established 1780.

MALT & COD LIVER OIL

Prepared only from the Finest East-Coast Barley, combined with the best Norwegian Non-Freezing Cod Liver Oil.

Packed in Screw-Capped Jars, Bottles and Tins, holding 1 lb. and 2 lb. Neatly Labelled and Wrapped. Customer's Name printed on Labels for Orders of 1 Gross and upwards.

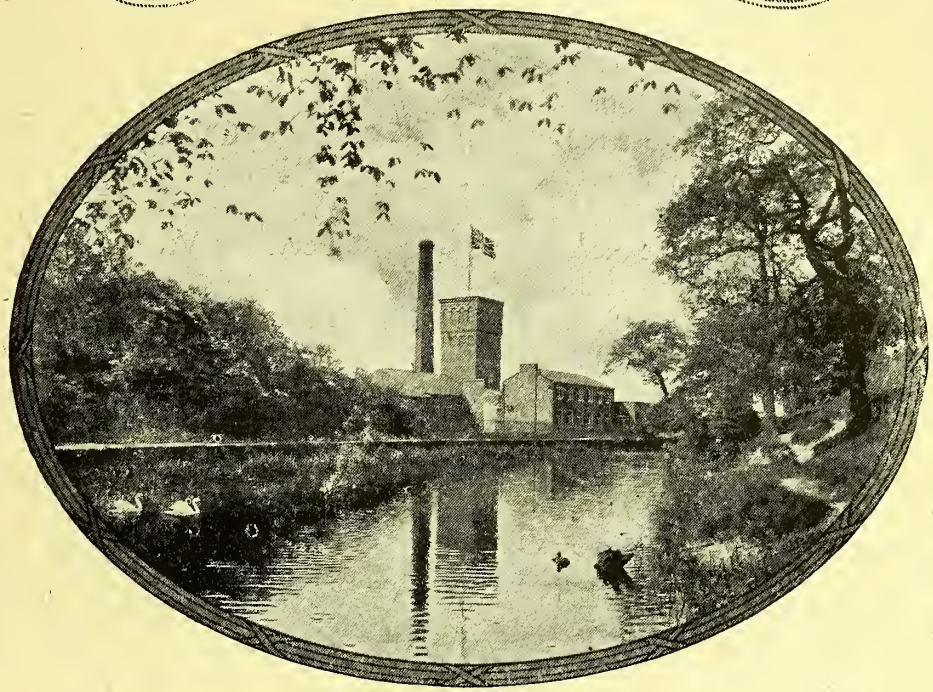
Telephones: Nitshill—Pollokshaws 14 London—Avenue 5661 (3 lines).

PERRY & HOPE, Ltd.

Telegrams: "Perryope, Nitshill." "Perryope, Led, London."

NITSHILL, near GLASGOW.

London Office: 1 LEADENHALL STREET, E.C.3.



Where Castols are Made.

THE above photograph (the second of a series) shows a corner of the Garden Laboratories of Thomas Kerfoot & Co. Ltd., from another unusual point of view—the towing path of the canal arm specially cut to serve the spinning and furniture-making factories which originally occupied this site.

In such ideal surroundings are Castols made, together with many other novelties and refinements of modern pharmacy. Particulars of these will be found in our monthly price list. A copy will be sent regularly to any pharmacist on request.

The whole of the front page of the "Daily Mail" (Million Sale) will be devoted to a Castols announcement on Aug. 27th. Watch your stocks in anticipation of the extra demand which will result.

THOMAS KERFOOT & Co LTD
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

COPYRIGHT

HEART SHAPE

Breath Violets
Blackpool Breezes
Bolton Abbey Breezes
Brighton Breezes
Cachou d'Amour
Caressa (Registered)
Chatsworth Violets
Dress Circle
Eau de Cologne
Hastings Breezes
Hyacinth Pink
Heliotrope
Japanese Glory
Jasmin
Jockey Club
Kiss Her Once
Killarney Violets
Lavender
Lily of the Valley
Margate Breezes
Mixed Bouquet
Moonlight
Musk
Opoponax
Parma Violets
Patchouli
Pevensey Violets
Pompadour
Queen Mary Violets
Royal Nectar
Russian Violets
Southend Breezes
Sweet Kiss
Southsea Breezes
Tango
Wallflower

FLORAL CACHOUS

PREPARED FROM THE FINEST INGREDIENTS AND HIGH CLASS OTTOS

PRICE 3/3 PER LB.

THIN DIAMOND SHAPE

Heliotrope
Jasmin Lavender
Jazz Jockey Club
Lilac Lily of the Valley
Mixed Opoponax
Musk Orange Flowers
Rosebuds Parma Violet
Violets Blue
Wild Rose
Wallflower
Zenana

All Cachous are sent in free 1lb Cartons unless specially ordered in bottles or vases
HEART SHAPE SENT *unless* DIAMOND *or* SMALL ROUND *specially ordered*

SMALL ROUND SHAPE

English Roses
English Violets
Red Roses
Tea Roses
Wood Violets

Manufactured by
POTTER & CLARKE LTD
LONDON & MANCHESTER

CGCo Ltd TRADE MARK

CHEMISTS'

OWN NAME PACKED PHARMACEUTICALS.

OUR
"MINOR AILMENT SERIES"
will enable the busy Pharmacist to offer a remedy of sterling value for all and every complaint.

The prices are such as to leave an ample margin of profit to the retailer and yet not become too expensive to the purchaser.

Considering the cost, trouble and delay in procuring bottles and labels, cartons, etc., of first quality, and further the increasing cost of labour in the pharmacy in packing them, it will be self-evident to the busy pharmacist that they are a distinct advantage.

The entire series has a high-class appearance, creates confidence and makes sales easy.

Write for Price List and Samples.

Blood Mixture C.15.

Cuxson, Gerrard & Co., Ltd.
Oldbury, near Birmingham.

Foreign & Colonial Orders Invited.

SYNTHETICS

of

Highest Quality now in stock.

GERANIOL from PALMA ROSA

IONONE ALPHA

IONONE 100%

HELIOTROPINE

PHENYL ETHYLIC ETHER

RHODINOL

Extra Fine Quality

RHODINOL-CITRONELLOL

ETC. ETC.

Prices and samples from

R. LANE-HALL & CO., LTD.,

1 Steward Street, LONDON, E.1.

Phone: Avenue 5183. Telegs.: "Erlanall, Ald, London."

AMERICAN

ESSENTIAL OILS

"MOHAWK" BRAND

OIL PEPPERMINT (Natural)

OIL CEDARWOOD OIL HEMLOCK
OIL CEDARLEAF OIL BIRCH

Heliotropine Crystals C.P.
Vanillin C.P.
Coumarin C.P.
Oil Wormseed, American.
Oil Wintergreen Leaf, U.S.P.

MAGNUS, MABEE & REYNARD, Inc.

Essential Oils, Chemicals and Drugs,
NEW YORK - - U.S.A.
Cables—"MAGLAUR."

A. W. SCHWARZ HEIRS

FACTORY OF

Synthetic Perfumes

ALTSTETTEN—ZURICH.

Loritol (Muguet), Ionone (Violette), Geraniol, Citronellol, Rhodinol, Chirassol, Phenylethyl, Alcool, etc.

Specialities for fine perfumery

Ambre Concrete, Biancol, Birosine, Bouvardine, Capucine, Chene Royal, Heliotrope, Jacinthe, Idealone, Neroly, Raldeine, Roseine, Sweet Pea, Narisse, Orchidee, etc., etc.

Specialities for Soap Manufacturers

Acaciol, Cassia N. Cyclaman, Geranium-Roseine, Giroflee, Lilac, Muguet, Patchouly, Violet, Reseda, Peau d'Espagne, etc., etc.

ASK FOR SAMPLES.

Sole Agents for the British Empire:

G. E. KAYE, LTD.,

65 Fenchurch St., London, E.C. 3.

Telegrams: "Thesaurus-Fen, London." Phone: Central 1708

PENNYROYAL

SPIKE LAVENDER ROSEMARY

CAMPHOR

JUNIPERWOOD JUNIPERBERRY

RED THYME WHITE THYME

LONABARC BRAND

EUCALYPTOL **CRYSTALLIZABLE**

LAVENDER FLOWERS CHAMOMILE FLOWERS

STRAMONIUM LEAVES **THYMOL** CRYSTALS. QUINCE SEEDS

LONABARC TRADING COMPANY, Ltd.

5 FINSBURY SQUARE, LONDON, E.C. 2.

Phone: CLERKENWELL 2096. Grams: "LONABARC, FINSQUARE, LONDON."

"ARETHUSA"

Brand

ESSENTIAL OILS

LEMON, ORANGE (Sweet & Bitter)
BERGAMOT :: MANDARIN

Guaranteed absolutely pure

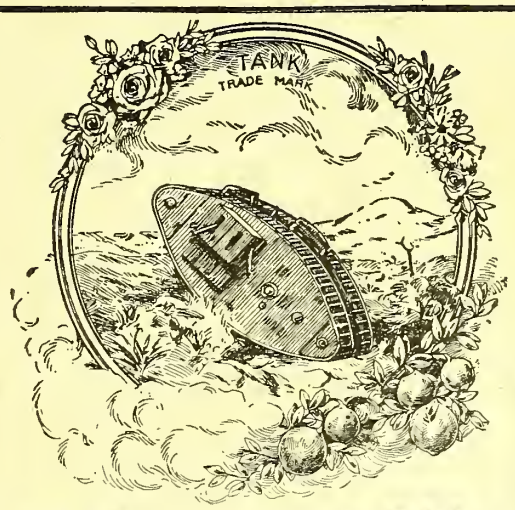
The Brand that covers only Finest Quality Oils.

Manufactured by the old-established house of FRATELLI JUNG (Est. 1867) Palermo, Messina, Catania.

ASK YOUR USUAL SUPPLIERS
to deliver you "**Arethusa**" Essential Oils, or apply to the London Agents:

Gerald McDonald & Co.,
9 BOTOLPH LANE - E.C.3.

Telegrams: "Spicebush, Bilgate, London."
Telephone: Avenue 206 (3 lines, 7 extensions).



NEROLI BIGARADE

Distillation Spring 1920

"Tank" Brand.

Pure Sicilian Essential Oils
Terpeneless Essential Oils

The Best on the Market

EXPORTATION THROUGHOUT THE WORLD

Export Agent:
GIUSEPPE MACAJONE, MILAN
Via Canova 25 (Italy)

TERPENELESS OILS
BRITISH MADE

We manufacture exclusively ourselves all kinds of Terpeneless Oils, and invite inquiries from users throughout the world.

WE SPECIALISE IN TERPENELESS:

Anise (Anethol)
Bay
Bergamot
Caraway
Cassia
Cinnamon
Clove
Dill
Geranium
Ginger
Juniperberry
Lavender
Lemon
Limes
Mandarin
Nutmeg
Orange
Peppermint
Petitgrain
Rosemary

CINNAMIC
ALDEHYDE
GERANIOL

CITRAL

EUCALYPTOL

SICILIAN
LEMON - BERGAMOT
ORANGE - MANDARINE.
SPINELLI

The Oils that have a Long Reputation for Quality.

In the manufacture of our Terpeneless Oils it was imperative that we secured the very finest Sicilian Oils to work upon. After several exhaustive tests we came to the conclusion that the "SPINELLI" brand of Sicilian Oils gave us the best results. As we were able to place large orders for our own needs with the manufacturers, we have pleasure in stating that they have entrusted us with their British Agency, and we offer to users of Sicilian Oils the benefit of our experience. There is quality in every package. Guaranteed Genuine Oils of authentic origin, and to conform to any analysis as to purity.

HOLLANDS DISTILLERY LTD.
Lavington Street, Southwark, LONDON, S.E.1.

A B C Code, 5th Edition.
Western Union.

Telegrams: "LANDSLOH LONDON."
Telephone: Hop 898.

AMERICAN AGENTS—O. A. BROWN CO. INC., 99-101 Beekman Street, NEW YORK.
CANADIAN AGENTS—F. S. JARVIS & CO., 18 Toronto Street, TORONTO.

Cresp-Martinenq
(Grasse, France),

Manufacturers of

ESSENCES & PRIME MATERIALS for MANUFACTURING
PERFUMERS, CONFECTIONERS, ETC.

SYNTHETICS
ARTIFICIAL VIOLETS (MYRIONE)

Artificial Musk

INQUIRIES SOLICITED. LARGE STOCKS

ROBERT FERBER, LTD.
98/104 OAKLEY STREET,
LONDON - S.E.1.

Agents for the UNITED KINGDOM & CANADA.

PETROLEUM
For Pharmaceutical & Technical Purposes.

WE can give immediate delivery of all qualities and varieties of petroleum for medicinal and for manufacturing purposes.

Inquiries are invited for special varieties.

MEDICINAL LIQUID PARAFFINS.
WHITE TOILET PARAFFINS.
TECHNICAL WHITE OILS.
BRILLIANTINE OILS.
PETROLEUM JELLIES,
HARD PARAFFINS.
SPRAY OILS, SLAB OILS, Etc.

Samples and Prices Forwarded Promptly on Request.

THE WM. BROWNING Co. Ltd.,
Albert Works, Park St., LONDON, N.W.1.

Telephone: Hampstead. 4046.

N. V. Chemische Fabriek "Naarden"

Bussum, Holland.

MANUFACTURERS OF AROMATIC CHEMICALS, FLOWER OILS & TERPENELESS ESSENTIAL OILS.

HELIOTROPINE
AUBEPINE
NARCISSUS
EUGENOL
DIPHENYLOXIDE

Please apply to our Sole Agents for Quotations and Samples—

GERALD BROMAGE & CO., 9-10 Foster Lane, E.C. 2.

Telephone: City 4719. Telegrams: "Gerbromco, Cent, London."

ROURE BERTRAND FILS, GRASSE. *Established 1820.*

LAVENDER (French), SPIKE LAVENDER (French and Spanish)

NEROLI, GERANIUM (African and Bourbon), SANDALWOOD, PETITGRAIN (French and American), VETIVER (Java and Reunion), ROSEMARY, BOIS DE ROSE FEMELLE, YLANG, &c.

ORRIS CONCRETE and LIQUID.

ESSENCES, SOLIDES and LIQUIDS from flowers. RESINOIDS and POMADES.

We have Stocks in London of the most important Essential Oils and Perfumery Products.

JUSTIN DUPONT, Argenteuil (S. & O.), France

Makers of SYNTHETIC PERFUMES

and some of the finest original odours extant, for Sachets, &c.

SOLE AGENTS FOR THE UNITED KINGDOM:

STEPHENS BROTHERS & CO., 2, 5 & 6 Bury Court, St. Mary Axe, London, E.C. 3.

Wholesale Houses only supplied.

SPECIAL OFFER

SUPERFINE COLD CREAM, in 5-lb. tins, net weight, 10/6 Carriage Paid. Cash with Order.

THE CASSON CHEMICAL CO., LTD.

44a Westbourne Grove, London, W. 2.

SELL DE LUZY—

AND MAKE NEW FRIENDS

Chemists are telling us every day that when they introduce De Luzy lines their customers return and comment on their excellence.

	each	doz.	each	doz.	each	doz.
POUDRE	10d.	6/8	1/9	14/-	3/3	26/-
CREME	1/3	10/-	2/6	20/-	3/9	30/-
PARFUM (Fleurs Naturelles) ...	—	—	5/-	40/-	14/6	116/-
PARFUM, Origan, Chypre, Ambre	—	—	5/6	44/-	16/6	132/-

Showcards and Samples supplied. Carriage Paid on any Opening Order.

W. H. CALNAN & CO., 30-32 Ludgate Hill, LONDON, E.C.

The Perfect Paste with the Pleasant Flavour.

Anglodol

Dental Paste

A Perfect Dentifrice.
Pleasant to the taste.
Profitable to the Retailer.

Retail Price, 7½d. and 1/3.

Window display terms on application.

ANGLODOL, LTD., BERKHAMSTED.

Telephone: BERKHAMSTED 138. *Cables and Telegrams:* "ANGLODOL BERKHAMSTED."

To Please is to Create

NORA

Complexion Powder

Poudre de Riz

Produced to supply a perfect high-grade Face Powder at a reasonable price, showing an excellent selling margin. **9/-** doz.

Are you Selling our Brillantine Exotique ?

Introductory Bonus—Special.—With each order of 3 doz., a bonus of ½-doz. as a Sales Promoter.

One of the Areco Series

Nora is British made in a British Factory under the management of a French Perfumery expert.

TINTS
Sunburn
White
Rachel
Naturelle
Rose

Adherent and permanently tragrant.

Areco Ltd

London and Paris

11 Southampton Row
London, W.C. 1

Rue Taitbout
Paris, IXe

We should like to put an interesting proposition before you—May we call with samples?

The

HENNA CULT

of Hair Beauty, based on the famous

EVAN - WILLIAMS

ORIGINAL

HENNA SHAMPOO

daily extends its boundaries, and is now a subject for popular journalism.

It pays to sell this famous line.

You will find full details of terms and prices in the current issue of "THE SHAMPOO SALESMAN," a copy of which is gladly sent on request.

Be sure to order

THE EVAN WILLIAMS ORIGINAL Henna Shampoo

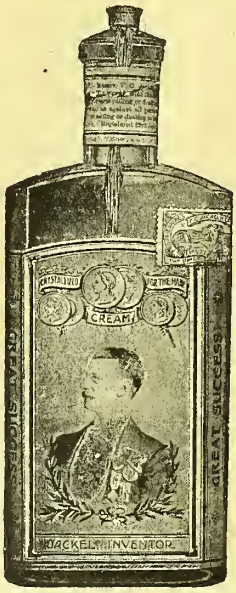
Wholesale only:
THE EVAN-WILLIAMS CO., LTD.
18 Ogle Street - LONDON, W. 1.

"Jackel's Cream"

(without Grease)
for THE HAIR

Sold everywhere

Established 1883.



"Jackel's Cream" fixes the hair in any desired position; is unexcelled as a dressing and does not soil the headware. It removes Scurf and Dandruff, keeps the scalp healthy, and promotes the natural growth of the hair while maintaining its softness and brilliancy.

Prices for Wholesale and Export Houses on application.

CRYSTALLISED
1/9 CREAM 2/3
Trade Mark attached to each bottle.

Jackel et Cie (of Paris) Ltd.
Sauchiehall Street
GLASGOW

A. H. RIISE'S

ST. THOMAS NEW YORK COPENHAGEN

BAY RUM

The genuine West Indian Bay Rum. The most delicate tonic for the hair, the skin, the bath.

Prompt delivery from the free harbour at Copenhagen, Denmark.

In casks of about 180 litres.

Apply to—

AUGUST FABER & CO.
60 Mark Lane, London, E.C.3.
or
A. H. RIISE
6 Engtoftevej, Copenhagen.

Whole front page DAILY MAIL August 6th.

We have booked the above page to advertise our well-known

ANZORA CREAM
AND
ANZORA VIOLA

the only preparations on the market that effectually

Master the Hair

This will mean increased trade for you, so prepare for the demand and

look to your stocks.

Trade Terms.
12/- per dozen, retailed at **18/-**
20/- per dozen, retailed at **30/-**

If you desire we will forward a reproduction of the whole page for display on your window or in your store. Let us know how many copies you can exhibit.

ALSO
we are introducing a new line,
Anzora Beta-Naphthol Soap
(Powdered),
an efficient and economical Shampoo.
ORDER a small quantity to begin with.
TRADE TERMS—
12/- per dozen jars, retailed at 18/-.

Obtainable from all Wholesalers.
Attractive showcards post free on request.

ANZORA PERFUMERY Co. Ltd. WILLESDEN LANE, LONDON, N.W. 6.

Enolin

TOOTH PASTE "Strong" or "Mild"

THE SUPER PASTE

"Enolin" is also supplied in Powder Form - 6d. & 1s. Tins

Selling Agents for Provinces, Ireland and Export—
Messrs. PATTINSON & MACKIE, LTD.
Albion House, 59 New Oxford Street, London, W.C. 1.

Sole Manufacturers and Proprietors—
A. & E. CARRERAS, LTD., Perfumers,
207 King Street, Hammersmith, London, W. 6.

PUFFS of ALL KINDS in DOWN and WOOL.
SOLID FACE POWDERS
COMPLETE WITH PUFFS.
Inquires invited by makers.
F. SCHUTZE & CO., Ltd.,
BLACK BULL WORKS,
Caledonian Market, London, N.7.

The Dye with a Reputation for reliability.
ROYAL COURT HAIR DYE
SEVEN SHADES.
1/6 size 12/- doz. 2/6 size 18/- doz. P.A.T.A.
The only dye giving a natural gloss to the hair.
From all wholesalers or direct
J. KNOX-WALKER & Co., Ltd., 422 Kingsland Rd., London E. 8.

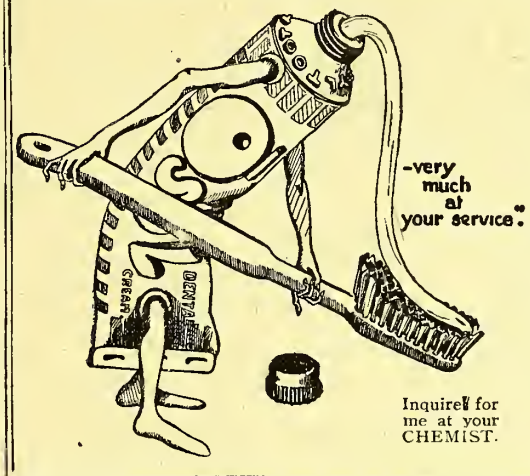
PERFUMERS ! SHORTAGE OF LABOUR
Advertisers are prepared to undertake the blending of Shampoo, Tooth, and other Toilet Powders, in large or small quantities at lowest possible rates. Good workmanship and prompt delivery. Ingredients supplied if desired at lowest market prices. Write stating requirements.
MARTIN & CO., 71 City Road, Finsbury, London, E.C.1.

EASTERN TRADING Co. Ltd.
St. Giles, Salisbury.
Importers of Face or Powdered Paper.
Stocked in Rouge, White, Pink and Natural.
Cases of 50 reams. 96 sheets per ream.
Rouge, 11/-, other colours 8/- per ream, *ex* store London.

FACE CREAM. TOOTH POWDER. NAIL POLISH
„ POWDER. „ PASTE. HAIR CREAM
BRILLIANTINE, Solid and Liquid. PERFUMES
VIOLET POWDER. TALCUM. TOILET OATMEAL.
SHAMPOO POWDER & LIQUID. MASSAGE CREAM
Your own formula prepared, or we can supply ingredients if desired.
Send for samples and quotations.
A. CONNELL & CO., 3 Jewry Street, LONDON, E.C.3.
PHONE—AVENUE 1945.

Introduce me to the Members of your Family

"Allow me please!.– Mr. Osyl Toobe.–



Inquire for me at your CHEMIST.

I Contract for the Purification of Grimy Molars

OSYL
TOOTH PASTE
7½d. and 1/3 PER TUBE
Supplied also in POWDER form
The Best Dentifrice.
Drop a card for Sample, post free, to
LYSOL Ltd.
Stratford, London, E.

Over 100% Profit

We have now commenced an extensive advertising campaign in which Mr. OSYL TOOBE is exerting his personality to millions of people, the above reproduction being the first of the series. In co-operation, will you display Mr. OSYL TOOBE and family prominently in your window and on the counter.

TOOTH POWDER 7½d.

REGISTERED TRADE MARK
Osyl

TOOTH PASTE 7½d. & 1/3

Make your order out as below and send on to us
for the Special Window Show Parcel.

Please send me, carriage paid, with Window display matter :
7½d. OSYL TOOTH POWDER at **59/6** per gross.
7½d. OSYL TOOTH PASTE „ **67/6** „ „
1/3 OSYL TOOTH PASTE „ **135/-** „ „
with bonus of ½ **quantity** ordered on three dozen lots, for which I enclose cash and undertake to make counter and window-display in return for above special terms.

LYSOL LTD., Stratford, LONDON, E. 15.

Popularising Oral Hygiene

It is certainly to the advantage of the pharmacist to foster the growing interest of the public in the care of the mouth. In the current advertising for Euthymol Tooth Paste, attention is directed not only to the importance of the defence of the teeth against the results of bacterial activity, but also to the consequences of neglect on the general health. This is a matter of real importance.

The advertising of

Euthymol
TOOTH PASTE

has done a great deal to educate the public on oral hygiene, and the benefit of this publicity is reaped by the chemist in proportion to the prominence of his display of the preparation.

There is nothing vague about the germicidal power of Euthymol Tooth Paste. It has a definite value—equivalent to that of a theoretical 14% solution of phenol—and this was determined years ago, and has been corroborated by independent bacteriologists. Particulars of the tests used will be sent on request.

Send a card and see if we can help you to increase your sales.

PARKE, DAVIS & CO.
50-54, Beak Street, LONDON, W.1.
Laboratories :: :: Hounslow, Middlesex.

Think it over!

THESE ARE JUST THE LINES YOU WANT.

"Leona" Series are of tip-top quality, beautifully packed, well advertised, leave you a good profit, and are on the P.A.T.A.

"LEONA" DENTAL CREAM

(Mint or Thymol)

Small Size ...	Cost 4/6 per dozen	Sell	@ 7½d.
Large Size ...	„ 8/- „ „	„	@ 1/3

Recommended by the Institute of Hygiene.

"LEONA" CREME DE BEAUTE

Cost 12/- per dozen Sell @ 1/6

A Delightfully Perfumed Vanishing Cream packed in handsome 2-oz. opal pots.

"LEONA" BRILLIANTINE (SOLIDIFIED)

Cost 8/6 per dozen Sell @ 1/-

Packed in beautifully embossed tins and cartons.

POUDRE "LEONA"

Cost 8/- per dozen Sell @ 1/-

Richly perfumed and packed in gold-blocked boxes.

Every Line is a work of art.

Ask your wholesaler to show them to you, and

YOU WON'T REGRET IT

Sole Manufacturers and Proprietors—

THE JACKSON CO., 172 St. JOHN STREET, LONDON. E.C. 1.

A. BOURJOIS & Cie, Ltd.

66 CARTER LANE - LONDON, E.C.4.

Please note that the prices of

Poudre de Riz de Java (Bourjois)

are as under:

2/- size.	No. 45	1/3 size.	No. 495
1 doz. -	16/- per doz.	1 doz. -	11/- per doz.
6 „ -	15/9 „	6 „ -	10/9 „
12 „ -	15/6 „	12 „ -	10/6 „

The P.A.T.A. prices for Java Powder have been increased to 2/- and 1/3 per box.

May 1, 1920.

BE SURE AND ADD

La-Rola

Rose Bloom

TO YOUR STOCK AT ONCE,

as it is being largely advertised in the "Daily Mail," "Mirror," "Sketch," etc.

Do not lose the business through being out of stock.

It is the most natural tint on the market, and is selling well wherever introduced.

Lait La-Rola & Glycerine & Cucumber

supplied as usual,

All these articles are protected at FACE VALUE. Write for Display Terms and save 10%.

M. BEETHAM & SON, Cheltenham.

MOUSLEY'S

"BEAVERPUF"

Patent Nos. 4931 and 4932.

The Ladies' Natty Friend.

B. quality Brown Fur, 3/11 each, Retail.

G. quality Grey Fur, 4/6 each, Retail.

Additional Powder Bags, 6d. each, Retail.

Revolution in Powder Puff Manufacture.
Thousands already sold.
Now stocked by leading Wholesale Houses.
Usual Trade Discounts.

Patentee and Sole Manufacturer:

F. A. MOUSLEY,

Priest Bridge, Mortlake, London, S.W.14.

MENNEN

CULTIVATE men's custom with Mennen Shaving Cream—Mennen's warrants your enthusiastic recommendation as something different and infinitely superior to the ordinary methods of producing shaving lather. Mennen's can be used with cold water as successfully as with hot—a particular advantage to those with sensitive skins. Mennen's produces a permanent lather immediately without rubbing in. The large size tube is essentially convenient in handling, is economical, and being hermetically sealed ensures the contents being in perfect condition—no drying up—comes to the user just as manufactured — most acceptable to the particular man.

P. A. T. A. Selling Price
1/9 per tube
16/6 per doz.

3 dozen quantities 2½% discount.

1 gross 10% discount.

MENNEN TALCUM FOR MEN

For after shaving. A neutral colour which does not show white on the face. A talcum for every special need and for every member of the family—Toilet, Violet and Flesh Tint—MENNEN is always in demand.

P. A. T. A. Selling Price
1/3 per tin. **10/9** per doz.

3 dozen quantities 2½% discount. 1 gross 10% discount.
Carriage Paid on 3 dozen assortment.

FASSETT & JOHNSON, LTD.
(Sole Consignees Mennen Products)
St. John's Gate Buildings, 86 Clerkenwell Road
LONDON, E.C.1

MAGNUM SIZE

B B

DEARBORN

LIMITED

37 Gray's Inn Road, LONDON, W.C.

Toilet Specialities.

	Price per doz. to Retailer.	Selling Price P.A.T.A.
PILENTA SOAP - A complexion soap.	10/-	1/-
PROLACTUM - - For the lips.	10/-	1/-
PARSIDIUM JELLY For wrinkles.	10/-	1/-
ALLACITE of ORANGE BLOSSOM A dressing cream.	22/6	2/6
BORANIUM - - A hair tonic.	22/6	2/6
CLEMINITE - - For a face lotion.	22/6	2/6
COLLIANDUM - - For a face tint.	22/6	2/6
PERGOL - - - A deodorant.	22/6	2/6
STALLAX - - - For a shampoo.	22/6	2/6
JETTALINE - - For clearing the skin.	31/6	3/6
PHEMINOL - - A depilatory.	36/-	4/-
MENNALINE - - For the eyelashes.	36/-	4/-
MERCOLIZED WAX A face cream.	31/6	3/6
STYMOL - - - For oily complexions and blackheads	36/-	4/-
BARSYDE - - Dandruff eradicator.	22/6	2/6
TAMMALITE - - For grey or faded hair.	22/6	2/6
LIQUID PERGOL - To check excessive prespiration locally.	31/6	3/6
BICROLIUM - - For whitening the hands.	22/6	2/6
HARAPOSA - - Nut oil shampoo.	22/6	2/6

STOCKED BY ALL WHOLESALE HOUSES

COLONIAL DEPOTS AND AGENCIES.

AUSTRALIA:
ALL WHOLESALERS, and
DEARBORN, Ltd., Grace House, Clarence Street, Sydney.

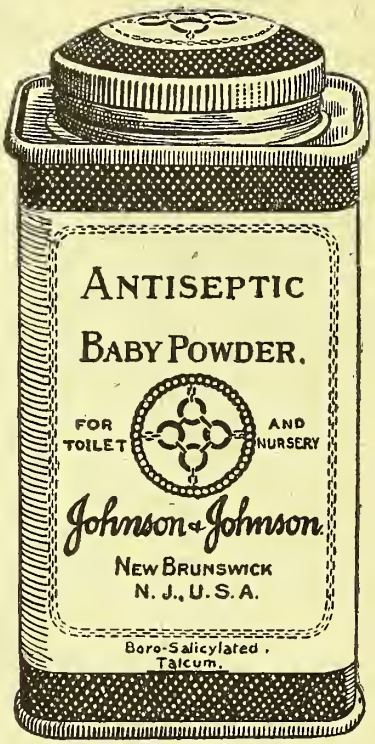
SOUTH AFRICA:
LENNON & CO., Ltd. (Cape Town)
SIVE BROS. & KARNOVSKY, Ltd. (Johannesburg)

INDIA:
KEMP & CO., Ltd. (Bombay)
THE INTERNATIONAL TRADING CO., Princess Street (Bombay)
R. MACLURE (Madras)
SMITH. STANISTREET & CO. (Calcutta).
MEHTA BROS. (Calcutta)
JAMNADAS BROS. (Bombay)

NEW ZEALAND:
SHARLAND & CO., Ltd. (Auckland & Wellington)

SOUTH AMERICA:
DEARBORN, Ltd., Calla Salta 264, Buenos Aires.

SOLD THE WORLD OVER.



Antiseptic TOILET & BABY POWDER

JOHNSON & JOHNSON

British - Manufacture.

Made from the Best Talcums and Delicately Perfumed.

Bonus given for order of 2 gross and window display.

For particulars apply to—

JOHN TIMPSON & Co., Ltd.

104 Golden Lane - - E.C. 1.

Hovenden's Toilet Preparations.

Attractive in Appearance, Reliable in Quality and Delicately Perfumed.

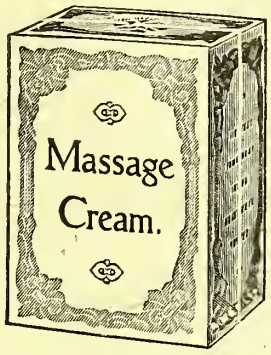
SEASONABLE **SALEABLE**

Suitable for High-Class Trade.

Bear our Trade Mark as a Guarantee of Quality.

WHITE.
No. 4764. 2-oz. size.
13/- doz.

No. 4776. 2-oz. size.
13/- doz.



No. 4765. WHITE. **13/-** doz.
No. 4768. 2-oz. size. PINK (Non-Greasy). **13/-** doz.

DENTOROL TOOTH PASTE.

Invaluable for all Toilet Purposes.

(PEPPERMINT FLAVOURED.)
No. 4763. **6/6** doz. Each in Artistic Carton with transparent covering.

Each in Artistic Carton with Transparent Covering.

No. 4767. 2-oz. size.
13/- doz.

Any article on this page can be supplied with Customer's Name and Address, in 1 gross quantities, FREE OF EXTRA CHARGE.

ASSORTED PERFUMES.
No. 4762. 2-oz. size.
12/6 doz.

SPECIAL QUOTATIONS FOR LARGE QUANTITIES.

Subject to 2½ per cent. Cash Discount.
A copy of our Monthly Illustrated List will be sent on application.

R. HOVENDEN & SONS, Limited.

29, 30, 31, 32 & 33 Berners Street, Oxford Street, W.1. Tel. No.: Museum 2810 (3 lines)
And 89, 91, 93 & 95 City Road, Finsbury, E.C.1. Tel. No.: Clerkenwell 1260 (2 lines)
LONDON.

Factory, 41 to 53 Britannia Row, Islington, N.

Delphinus

TOILET PREPARATIONS

Face Cream. Dental Cream.
Brilliantine (Solid & Liquid).
Pomade Hongroise. Nail Polish.
Shampoos. etc.

Products of Unvarying Excellence

Prepared by
The Delphinus Mfg., Co.
45 Edward Street, Brighton.
Cables & Wires: Hongroise, Brighton.

We do not incur heavy expenses in advertising to the public, but prefer to give our Clients the benefit of increased profits.

Sole Agents for Scotland:
Messrs. HENDRY & SMITH & Co.
83 Renfield Street, GLASGOW.

BE WISE! *Write us* **TO-DAY.**

Delphinus
TRADE MARK.

COPYRIGHT.

"Newberys"
FRANCIS NEWBERY & SONS LTD

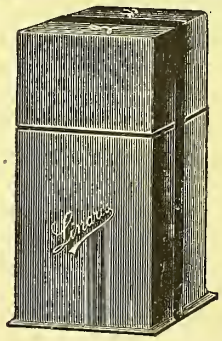
Dental Cream *of* Distinction

IN THE FOLLOWING FLAVOURS—

Formalin & Mint *Carbolic*
Oxygen *Smokers'*
Areca *Thymol*
Cherry

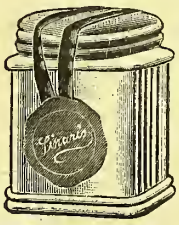
A first-class article, attractively packed—which cannot fail to bring repeats.

CHARTERHOUSE SQUARE,
LONDON, E.C. 1

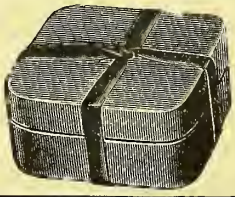


Linaris

BATH POWDERS
FACE POWDERS (*all tints*)
SKIN FOOD
BEAUTY CREAM
TONIC CREAM
VANISHING CREAM
BATH SALTS, etc. etc.



Linaris Dept. I **31 Westbourne Grove W.2.**



All High-Class Chemists should stock

DENTIFRICE

LACOSTE

the well-known Liquid Tooth Cleanser for checking pyorrhœa.

Retail **3/-** and **5/-** per bottle.

Also the unrivalled

SAVON DENTAIRE LACOSTE

for cleaning Artificial Teeth Plates.

Retail **2/6** per pot.

Liberal Discount to the Trade.

ATTRACTIVE SHOWCARDS SUPPLIED.

Wholesale and Export:

LACOSTE et CIE,

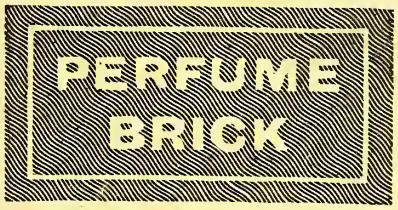
123a Borough High Street, London, S.E.1.

Telephone: Hop 1789.

SALES ALWAYS INCREASING.

INDIAN PERFUME BRICK

KEEPS AWAY MOTH. LASTING & FRAGRANT.



FOR LINEN CUPBOARD AND WARDROBE.

On the P.A.T.A. *Retail Price* **6d.**

WANDA TOILET PUMMICE.
WANDA NAIL POLISH.
WANDA ONE-DROP PERFUME.

Of the Makers:

WILLIS, LOW & DRUIFF, LTD.,

33 Percy St., London, W.1.

AND ALL WHOLESALERS.

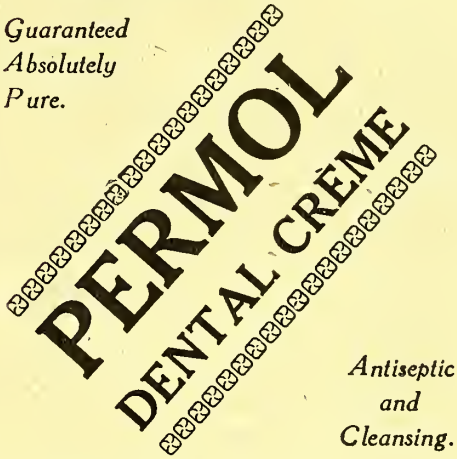
We do not Profiteer

at the Expense of the Retailer.

Push "PERMOL" and make a profit of 33⅓% plus a bonus of 1 doz. tubes per gross.

10/- per dozen post free
Packed in dainty cartons specially arranged for Counter Show.

Guaranteed Absolutely Pure.



Antiseptic and Cleansing.

The Dainty Dentifrice that will pile up your profits.

FOR Permol PURITY

Registered Trade Mark.

On the P.A.T.A.

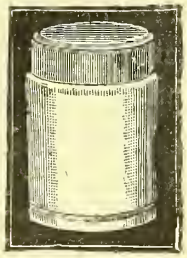
Send us a postcard and we will execute your orders in strict rotation.

Special Terms to Wholesalers.

PERMOL PRODUCTS Co., Ltd.

73 HIGH STREET,
LEWISHAM, S.E.13.

Just what you want in GLASSWARE of every description



YOU may, perhaps, be buying only for immediate requirements and cannot get prompt delivery of the goods wanted. Apart from our huge Provincial stock, bear in mind we have *ready for delivery* at our various London depots

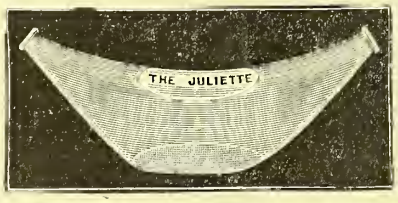
APPROXIMATELY

10,000 cases

of every description of Glassware for all purposes.

The following are some of the lines we offer:

LIMES, tinted green, squat, 2-oz., packed about 15 gross cases, **12/-** gross net.
Free port London. About 200 gross stock.
LIMES, tinted green, 4-oz., packed about 8 gross cases, **18/-** gross net.
Free port London and Newcastle-on-Tyne. About 500 gross stock.
MEDICALS, tinted green, 4-oz., plain, 1st quality, packed 5 gross cases, **21/-** gross net.
Free port. Stock 650 gross Hull. 100 gross London. 100 gross Liverpool.
MEDICALS, 4-oz., graduated, packed 6 gross cases, 2nd quality 19/- gross net
Free port London. Stock about 200 gross.
MEDICALS, tinted green, 6 oz., 2nd quality, plain, packed, 6 gross cases, **22/-** gross net.
Free port London. Stock 60 gross.
MEDICALS, tinted green, 2nd quality, 8-oz., grad., packed 3½ gross cases **24/-** gross net.
Free port Hull. 150 gross stock.
MEDICALS, tinted green, 1st quality, 8-oz., grad., packed 5 gross cases **30/-** gross net.
Free port London. 150 gross stock.
TOBINS, 2½-oz., tinted green, packed **5/6** gross cases, **20/-** gross net.
Free port, stock 200 gross Hull and 200 gross London.
VIALS, tinted green, ½-oz., packed about 28¾ gross cases **9/6** gross net.
Free port Glasgow, about 150 gross stock.
VIALS, tinted green, 1-oz., packed 17½-19½ gross cases, **11/-** gross net.
Free port Hull, Glasgow, Liverpool and Leith, about 700 gross stock in all.
VIALS, tinted green, 6 drams, packed 13/23 gross cases, **10/6** gross net.
Free port Leith, Hull, and Glasgow, about 1,000 gross stock in all.
VIALS, tinted green, 2-oz., packed 8/11 gross cases. **12/-** gross net.
Free port Leith, Hull, Glasgow and Liverpool. About 1,000 gross stock in all.
MEDICALS, 2-oz., tinted green, packed about 15 gross cases, **19/-** gross net.
Free port Leith. 9 cases stock.



WHOLESALE ONLY. NO RETAIL FIRMS SUPPLIED.

JULES LANG & SON

CHARLTON WORKS:

Charlton Place, Islington, London, N. 1.

Telephones: North 2770-2 (three lines). *Telegrams:* "Assorted, Phone, London."

Please mention this Paper when sending us your inquiries.

"RIVERA"

(VICTORY BOUQUET)

TOILET SOAP

AS PURE AS THE LILY, AS FRAGRANT AS THE ROSE.

RETAIL PRICE
PER **7d.** TABLET.

EVERYBODY IS ASKING FOR IT. ARE YOU ABLE TO SUPPLY?

If not, send us your order to-day.

WHOLESALE PRICE
60/- per gross
Packed in 12-tab. boxes.

A Cream Soap with perfume rich and rare;
It makes the fairest maiden yet more fair.

SHAVING BRUSHES OF QUALITY

MANUFACTURED BY

F. LAVISTA & FREEMAN,

10 MOOR LANE, FORE STREET,

LONDON, E.C. 2. Phone: LONDON WALL 1656. Wires: "SPAZZOLA, BARB, LONDON."

And Forest Brush Works, Walthamstow, Essex.

We are now in a position to deliver our BEST LONDON-MADE Shaving Brushes in Four Qualities, as under:

BONE HANDLES. STANDARD SIZES.

Series A. Pure Badger. Series C. Pure Badger and Hair.
„ B. Pure White Bristle. „ D. Imitation Badger.

Wholesale and Export.

APPLY FOR PRICE LIST.

BEWARE!!

ANTHRAX

Is an EVER-PRESENT DANGER!

Be on the safe side and stock

NONE BUT OUR SHAVING BRUSHES

and Camel Hair Pencils.

All Guaranteed FREE of ANTHRAX.

We also stock

COMBS - PUFFS - BAG PUFFS
Bone and Ivory NAIL FILES, and all Manicure Requisites and Sets.

Wholesale and Export only Supplied.

A. E. DEPRETER,

24 HOLBORN, LONDON, E.C.1

Phone: Holborn 3182. Grams: "Aedeprelon, Smith, London."

WHOLESALE & EXPORT ONLY

Special Offer!!

£10,000

WORTH OF FRENCH HORN

COMBS

At exceptionally low prices.

Dressing. Rake. Gents'. Pocket.

Delivery from London Stock. We can also supply your requirements in

Vulcanite, Galalith, Celluloid.

Send to

VERNON POWELL LTD.,

The Comb Specialists,

9 & 10 St. Andrew's Hill, London, E.C.4.

BRUSHES

The Holiday Season is in full swing, and articles for the Toilet are in constant demand. The following items are strongly recommended as good sellers — try an assorted parcel.

HAIR BRUSHES—

No. 553.	Satinwood back	12 rows, bristle	per doz.	**45/-**
,, 554.	,, ,,	11 ,, ,, long cut	,,	**57/-**
,, 555.	Ebonised wood	10 ,, ,, ,,	,,	**57/-**
,, 561.	Real ebony	9 ,, ,, ,,	,,	**102/-**
,, 557.	,,	13 ,, ,, ,,	,,	**108/-**
,, 550.	,,	11 ,, ,, ,,	,,	**126/-**
,, 558.	SPECIAL LINE	8 ,, whalebone	,,	**36/-**

NAIL BRUSHES—

No. 501.	Polished wood backs, assorted bristle and fibre	per doz.	**8/6**
,, 504.	,, ,, with handle ,, ,,	,,	**8/-**
	The "Orlwara," octagon shape	,,	**9/6**

TOOTH BRUSHES—

		No. 700	No. 701	No. 702	No. 705
Bone handles	4 rows per doz.	**6/-**	**7/-**	**8/-**	**10/6**
			No. 704	No. 707	
Celluloid handles	4 rows per doz.		**6/-**	**7/6**	

SHAVING BRUSHES—

Bone handles, hog hair	per doz.	**14/-**
,, imitation badger	,,	**18/-**

New Illustrated Price List post free on application.

BURGE, WARREN & RIDGLEY, LTD.

91/92 GREAT SAFFRON HILL - - - - - - - LONDON, E.C.1

G. B. KENT & SONS, LTD.

Are known the World over as the Largest Manufacturers of

BEST BRITISH BRUSHES

Please write for full Particulars to—

75 Farringdon Road, E.C. 1.

ENEMAS

INJECTION BOTTLES

HOT-WATER BOTTLES

FOR AUTUMN DELIVERY

Keenest Possible Prices from

WILLIAMSON BROS.

54 Lower Thames Street, E.C. 3.

Phone: Avenue 5827

Northern Showroom: Office No.7, 49 Deansgate, Manchester

We Manufacture all we sell. **We have representatives in Manchester, Glasgow & Ireland.** **Wholesale & Shipping only supplied.**

MANICURE SETS

MANICURE PARTS

HANDLES

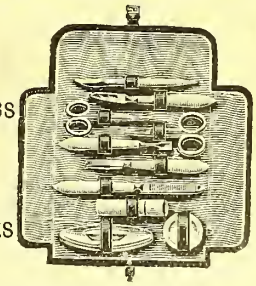
NAIL FILES

DRESSING COMBS

DUST COMBS

BRUSH BACKS

ERINOID ARTICLES

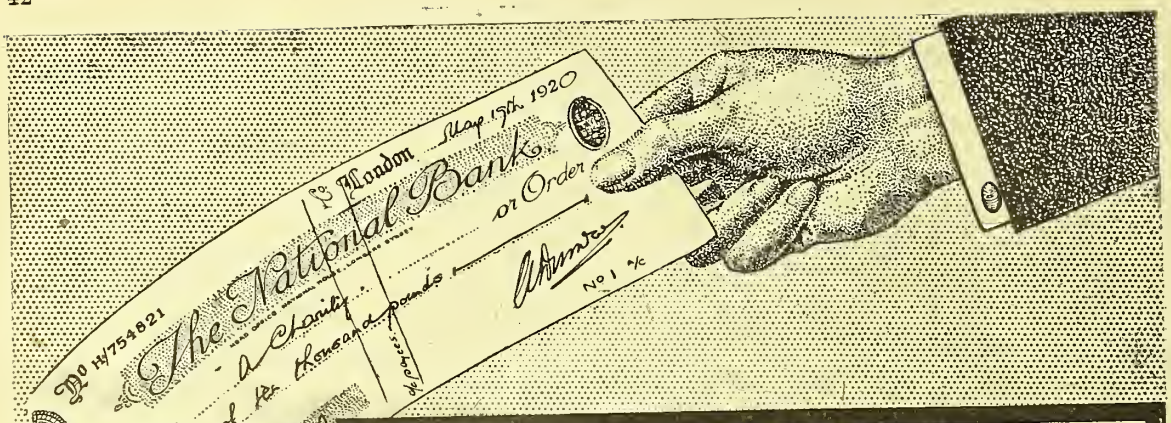


MYERS, LUMOS & CO.,

Sales Offices - 35/6 Aldermanbury, E.C.

Ring up City 3526.

Factories: Islington & Finsbury Park, London, N.



Those who give freely — buy freely -

Lord Weardale, the Chairman of the "Save the Children Fund," gives the following striking tribute to the advertising value of THE DAILY MIRROR. *He says :—*

"THE largest individual amount came from one of your readers. The cheque was for £10,000. We have found throughout the appeal, *The Daily Mirror* is unquestionably the most remunerative advertising medium." In the following words he gives a definition of *The Daily Mirror* circulation :—" Not only does it reach the richer classes, but also, it gets to the average man and woman." Finally he states :—" It is chiefly this fact that has made our fund such a huge success."

The readers of *The Daily Mirror* are just the very classes to whom advertisers desire to appeal—the classes who purchase the bulk of the nation's high-class goods. Will you let *The Daily Mirror* carry *your* appeal and so get in touch with the vast army of potential buyers ?

Daily Mirror

CIRCULATION OVER ONE MILLION DAILY

Specimen copy, rates and full particulars from the Advertisement Manager, *The Daily Mirror*, 23-29 Bouverie Street, E.C. 4.

Sterilized Dressings

HAS it occurred to you that as a result of the War many thousands of people who previously did not know much about it are now acquainted with the use of Surgical Dressings, and realise the importance of Sterilization?

There is a sense of security about the use of Sterilized materials which appeals to a large section of the community.

When in addition you can offer goods which are of first-class quality, you have confidence in selling, because you know the goods are right and your customer is sure to be satisfied.

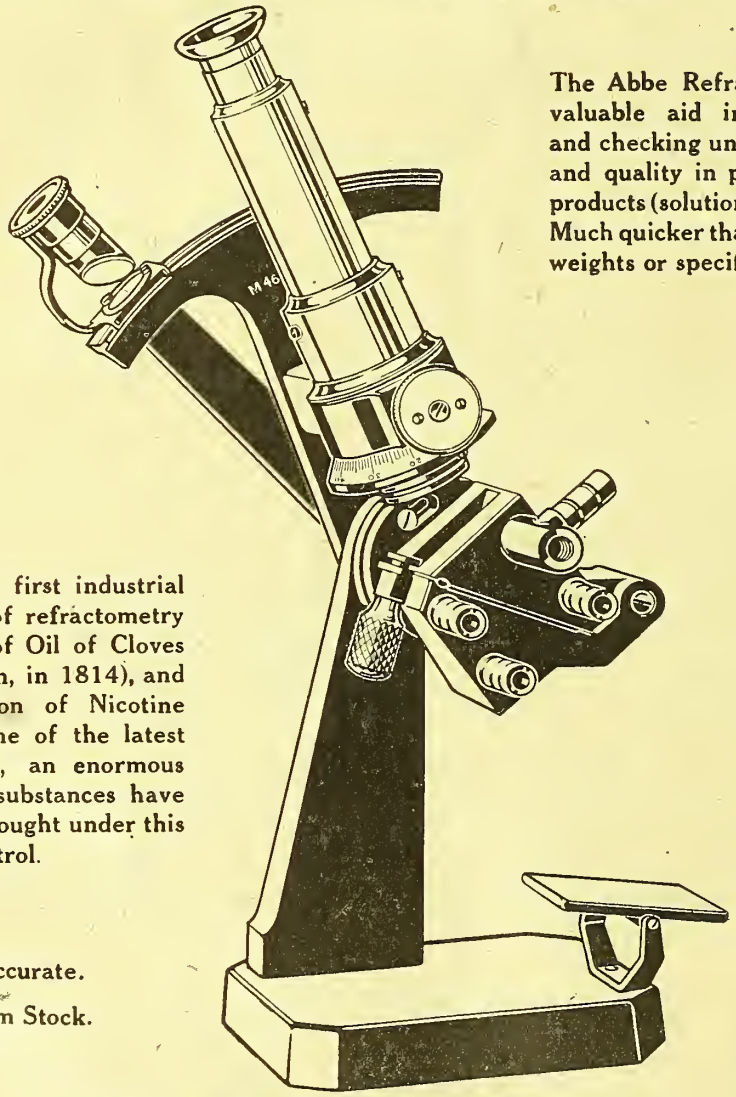
Further than that, the finish of the article helps you—cutter-lid tins, black wrapped, with gold label and red seal—the combination of colour compels attention—the exterior is an index to the contents—it's all good, but only when it's "Zorbo" Regd. Brand.

PRICES PER DOZEN TINS:

Sizes -	1 lb.	8 oz.	4 oz.	2 oz.
	54/-	35/-	19/-	11/-

ROBERT BAILEY & SON, Ltd.,
SURGICAL DRESSING MANUFACTURERS,
MARRIOTT STREET MILLS, STOCKPORT.
CABLES UNDISPUTED, STOCKPORT. CODE A.B.C 5TH EDITION.

The ABBE REFRACTOMETER



The Abbe Refractometer is a valuable aid in maintaining and checking uniform strength and quality in pharmaceutical products (solutions, syrups, etc.) Much quicker than taking dried weights or specific gravities.

Between the first industrial application of refractometry (the testing of Oil of Cloves by Wollaston, in 1814), and the estimation of Nicotine by Fryer (one of the latest applications), an enormous number of substances have now been brought under this mode of control.

Rapid and accurate.

Delivery from Stock.

Descriptive booklet on application from the Makers—

ADAM HILGER, LTD

75a, CAMDEN ROAD, LONDON, N.W.1.

Every Day of the Year 50% Profit

	JANUARY.					FEBRUARY.					MARCH.					APRIL.					MAY.					JUNE.			
Sun.	...	4	11	18	25	1	8	15	22	29	...	7	14	21	28	...	4	11	18	25	2	9	16	23	30	...	6	13	20	27
Mon.	...	5	12	19	26	2	9	16	23	...	1	8	15	22	29	...	5	12	19	26	3	10	17	24	31	...	7	14	21	28
Tue.	...	6	13	20	27	3	10	17	24	...	2	9	16	23	30	...	6	13	20	27	4	11	18	25	...	1	8	15	22	29
Wed.	...	7	14	21	28	4	11	18	25	...	3	10	17	24	31	...	7	14	21	28	5	12	19	26	...	2	9	16	23	30
Thu.	1	8	15	22	29	5	12	19	26	...	4	11	18	25	...	1	8	15	22	29	6	13	20	27	...	3	10	17	24	...
Fri.	2	9	16	23	30	6	13	20	27	...	5	12	19	26	...	2	9	16	23	30	7	14	21	28	...	4	11	18	25	...
Sat.	3	10	17	24	31	7	14	21	28	...	6	13	20	27	...	3	10	17	24	...	1	8	15	22	29	...	5	12	19	26	...

	JULY.					AUGUST.					SEPTEMBER.					OCTOBER.					NOVEMBER.					DECEMBER			
Sun.	...	4	11	18	25	1	8	15	22	29	...	5	12	19	26	3	10	17	24	31	...	7	14	21	28	...	5	12	19	26
Mon.	...	5	12	19	26	2	9	16	23	30	...	6	13	20	27	4	11	18	25	...	1	8	15	22	29	...	6	13	20	27
Tue.	...	6	13	20	27	3	10	17	24	31	...	7	14	21	28	5	12	19	26	...	2	9	16	23	30	...	7	14	21	28
Wed.	...	7	14	21	28	4	11	18	25	...	1	8	15	22	29	6	13	20	27	...	3	10	17	24	...	1	8	15	22	29
Thu.	1	8	15	22	29	5	12	19	26	...	2	9	16	23	30	7	14	21	28	...	4	11	18	25	...	2	9	16	23	30
Fri.	2	9	16	23	30	6	13	20	27	...	3	10	17	24	...	1	8	15	22	29	...	5	12	19	26	...	3	10	17	24	31
Sat.	3	10	17	24	31	7	14	21	28	...	4	11	18	25	...	2	9	16	23	30	...	6	13	20	27	...	4	11	18	25	...

THERE'S 50% PROFIT BEHIND EACH SALE OF SANAGEN and, besides that, increased Custom—*retained* Custom—the reputation of selling reliable goods—and repeats. SANAGEN is its own Salesman. Just show it in your Window or on your Counter—and it will sell a series of itself with the minimum of effort on your part.

SEE THESE PRICES : AND SIZES :

and then write for full particulars and Free Advertising Matter and Window and Counter Displays.

4 oz.	8 oz.	16 oz.
Cost 2/-	Cost 3/4	Cost 6/4
Sells 3/-	Sells 5/-	Sells 9/6
Profit 1/-	Profit 1/8	Profit 3/2

Sanagen

Trade Mark Regd.

SANAGEN CO. LTD., Sheepcote Lane, Battersea, London, S.W. 11. Telephone: Latchmere 4363.

IMPORTANT NOTICE TO THE TRADE.

Great Public Handwriting Character Competition

£1,350 IN PRIZES

In order to advertise **"LONDOVUS"**—the Rat and Mouse Exterminator—the Proprietors are inviting the general public to purchase same in connection with an attractive *Handwriting Character Competition* which is to be advertised very largely in the press in a few weeks from now. In order that *Dealers,* as well as the public, should participate, we offer the following:

A Prize of £25
to each of the Three Dealers from whom the winners of the Three Highest Prizes purchased their "LONDOVUS."

The simplicity of the competition, and the value of the prizes offered, will certainly induce many thousands of members of the general public to participate in the competition; and a large and immediate demand for "LONDOVUS" will be the result.

In order to meet this demand, dealers are urged to apply **AT ONCE** for adequate supplies, which will be made with the utmost dispatch.

No Licence is necessary to sell "Londovus."
It is HARMLESS to Humans and Domestic Animals.

RETAIL SELLING PRICE:

1/- size	... ...	12/- per dozen.
2/6 ,,	... ...	30/- ,,
5/- ,,	... ...	£3 ,,

Above figures subject to 33⅓ % discount. Carriage paid. Stocked by all Wholesale Chemists, Ironmongers, etc.

ADDRESS:

THE LONDON HYGIENIC CHEMICAL CO., LTD.,
Wansey Street Works, LONDON, S.E. 17.

Stock "LONDOVUS" at once to meet great demand.

Hop 1434.

ALTERATIONS IN TRADE LIST PRICES

During JUNE, 1920

The following list relates to the changes in prices which have occurred in respect to staple products or important alterations of prices of products in less frequent demand:—

NOTE.—The prices given below are current trade list prices to which 10% is to be added to arrive at the Minimum Selling Prices to the public.

TRADE MARK 'TABLOID' BRAND—

		List price per doz.
	BANDAGES, Open Wove, 1 in. × 6 yds.	5/0
,,	,, ,, ,, 3 ins. × 6 yds.	12/0
,,	BISMUTH GAUZE, Sterilised, 3 ins. × 1 yd., cartons of 6	70/0
,,	,, ,, Plain 3 ins. × 6 yds.	42/0
,,	Iodoform Gauze, 1 in. × 6 yds.	16/0

TRADE MARK 'HYPOLOID' BRAND—

			List price per doz.
TRADE 'INFUNDIN' MARK	0·5 c.c.	boxes of 2	18/0
,, ,,	0·5 c.c.	,, 6	42/0
,, ,,	1 c.c.	,, ,, 2	28/0
,, ,,	1 c.c.	,, ,, 6	72/0

BURROUGHS WELLCOME & CO.
LONDON

Another Chinese Imitation

of one of Burroughs Wellcome & Co.'s Packings

Suppressed

The Genuine

The facsimile illustration on the left shows the genuine packing of 'Tabloid' Soda-Mint, and that on the right is the imitation which was sold in China.

The Imitation

The infringers destroyed the whole stock of their labels, the bottles and contents and the lithographic stone from which the labels were printed.

We prosecute offenders rigorously, in the interests of prescribers, dispensers, patients and ourselves.

G 928

COPYRIGHT

"JASMOL"

VANISHING CREAM.

An ideal TOILET CREAM, well got up, exquisitely perfumed, NON-GREASY or STICKY, packed in screw Glass Bottles, Aluminium Capped and nicely cartoned.

Retails at 1/3 Wholesale Price 10/- per doz.

LESS USUAL DISCOUNT. HANDSOME PICTORIAL SHOWCARDS SUPPLIED.

"JASMOL" is a line that repeats many times over when once introduced.

Sole Manufacturers,

CUPAL Ltd., BLACKBURN

'Ialine Disinfectants

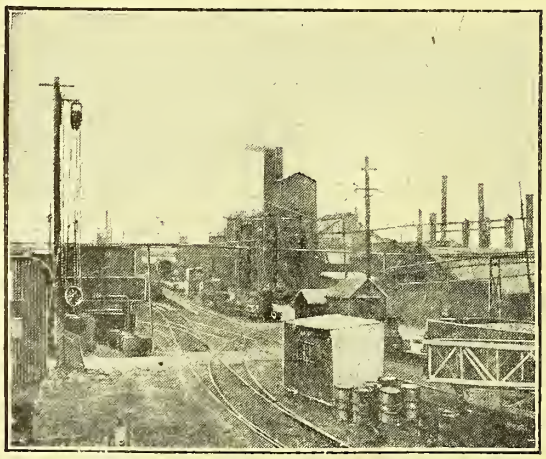
Also
FLUIDS
containing
10 — 80 %
Tar Acids.

High Co-efficient
FLUIDS
up to 18—20
Rideal-Walker
Method.

LYSOL

SHEEP DIP

Approved by the Board of Agriculture for Sheep Scab.



Coal Tar and Ammonia Products

Benzols, Toluol, Solvent Naphthas. Carbolic and Cresylic Acids, Creosote and Fuel Oils, Pitch, etc. etc. Timber for Dock and Harbour work. Deals, Battens, Boards, Floorings, etc. Railway Sleepers and Crossing Timbers, Telegraph Poles, etc. etc. Saw Millers and Timber Preservers.

Burt, Boulton & Haywood, Ltd. Salisbury House, London Wall, E.C. 2

Telegrams: "Burboul, Ave, London." Cables: "Burboul London."
Codes: A B C (5th Edit.); Lieber's; Western Union; Bentley's.

CARBOLIC POWDERS
CREOSOTE POWDERS
CO-EFFICIENT POWDERS
PINE OIL POWDERS
PINE OIL FLUIDS
PINE OIL BLOCKS
NAPHTHALENE BALLS
" CANDLES
" TABLETS
" FLAKE
" BLOCKS
" POWDER
LIQUID SANITARY SOAP
WOOD PRESERVATIVE
ETC. ETC.

THE CHEMIST AND DRUGGIST

A Weekly Journal of Pharmacy and of the Chemical and Drug Trades

THE CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists and Druggists' Society of Ireland, and of many Chemists' Societies in the Overseas Dominions.

Subscription Rates. TWENTY SHILLINGS a year payable in advance to any part of the world, including a copy of *The Chemist and Druggist Diary*. Subscriptions may begin with the first issue of any month. Single Copy 9*d.* post free; *Diary*, 5s. post free. Postal orders and cheques should be crossed "Bank of Liverpool and Martin's Ltd."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 20s., franco

Precio de suscripción anual: el periódico una vez por semana, y el agenda una vez por año 20cb., franco.

Terms for Advertising may be obtained on application to the Publisher

HEAD OFFICE: 42 CANNON STREET, LONDON, E.C. 4.

Telegrams: "Chemicus, Cannon, London." Telephone: Central 3617 (three lines).

BRANCH OFFICES: MELBOURNE AND SYDNEY, AUSTRALIA.

CONTENTS.

No. 2. Series 2111. Vol. 93.

	PAGE
Association Affairs	70
Births	61
British Pharmaceutical Conference	52
Business Changes	60
Coming Events	49
Corner for Students	67
Correspondence:	
Letters	78
Legal Queries	79
Miscellaneous Inquiries	80
Deaths	61
Drug Habit	72
Editorial Articles:	
Japanese Insect Flowers	64
Quinine Tests	65
Disgruntled Germans	66
Standard Sheep-dips	66
Prescribing Proprietary Medicines	66
Poisoning by *Œnanthe Crocata*	66
Belgium and Foreign Exchanges	66
English News	49
Indian Industries	78
Information Department	62
Insurance Act Dispensing	68
Irish News	51
Kidwelly Poisoning Case	58
Legal Reports	54
Luminous Paints	72
Marriages	61
New Companies and Company News	52
Observations and Reflections	63
Personalities	61
Pharmaceutical Society of Great Britain:	
Council-meeting	56
Profiteering Act	53
Retrospect	80
Scottish News	51
Summer Flowers	62
Summer Outings	69
Trade-marks	73
Trade Notes	62
Trade Report	74
Tri-Jubilee of F. S. Cleaver & Sons, Ltd.	60
Westminster Wisdom	59
Wills	68

Index to Volume XCII.

AN Index to Volume XCII. (which finished with our issue of June 26) is in preparation, and will be ready in a few weeks. It will be sent post-free to any of our subscribers who send us postcards intimating that they desire copies.

Coming Events.

Tuesday, July 13.

Amalgamated Society of Pharmacists, Drug and Chemical Workers, Progressive Pharmacy Club, Arundel Hotel, Arundel Street, Strand, London, W.C., at 7.45 P.M. Meeting.

Thursday, July 15.

Proprietary Articles Trade Association, Caledonian Room, Holborn Restaurant, London, W.C., at 3 P.M. Annual meeting.

Chemists' Defence Association, Ltd., Caledonian Room, Holborn Restaurant, London, W.C., at 4 P.M. Annual meeting.

THE Camberwell Guardians have increased the dispenser's salary at the infirmary to 315*l.* per annum, rising to 335*l.*, and at the relief station to 285*l.*

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Drug and Chemical Workers' Wages.

Sir William Glyn-Jones, secretary of the Drug and Fine Chemical Manufacturers' Association, writing in reference to the scale of wages published last week (*C. & D.*, July 3, p. 65), states that the amount of advance to women, grades 1, 2, 3, and 4, should be 2*s.* 6*d.*, and not 5*s.* The specified rates in the other paragraph in regard to women are correct.

Jury List Order, 1920.

The "London Gazette," July 2, contains the text of the Jury List Order, 1920, which replaces previous Orders containing instructions to overseers for preparing the Jury List for 1920. The schedule to the Order, which is the form in which the precept is addressed to the overseers by the Clerk of the Peace, states:

In making out the list you are to omit the names of any of the following persons: . . . Apothecaries certified by the Court of Examiners of the Apothecaries' Company and all registered medical practitioners and pharmaceutical chemists if actually practising as apothecaries, medical practitioners, or pharmaceutical chemists, respectively. . . . Dentists registered under the Dentists Act of 1878 or any enactment amending the same. . . .

Incorporated Association of Retail Distributors.

The Incorparated Association of Retail Distributors, whose headquarters are at 125 Pall Mall, London, S.W., has decided to form a pharmacy and drug section for the departmental-store proprietors connected with the Association. The following will become members of the section: Harrods, Ltd.; Selfridge's, Ltd.; Boots, Ltd.; Civil Service Co-operative Society, Ltd.; Civil Service Supply Association; Derry & Toms, Ltd.; A. W. Gamage, Ltd.; Henderson & Sons (Liverpool); Kendal Milne & Co. (Manchester); Swan & Edgar, Ltd.; Waring & Gillow, Ltd.; Wm. Whiteley, Ltd.; David Morgan, Ltd. (Cardiff); Owen Owen & Co. (Liverpool). The articles of association have been amended to permit of this step, and power is taken to create other sections when necessary. One object of the Association is to watch the interests of its members in regard to Parliamentary matters. Action has also been taken to bring before the Ministry of Transport the difficulties which traders are experiencing owing to restrictions since the war. A special statement was submitted to the Chancellor of the Exchequer upon the inclusion of co-operative trading societies under the Income Tax Acts, following up the evidence given on behalf of the Association before the Royal Commission on Income Tax.

London Chemists' Retail Price List.

The following are among the alterations and additions in the current issue of the London Chemists' Retail Price List: *Drugs.*—Acid. acetic., 2*d.* oz.; acid. boric. pulv. coml., 6*d.* 4 oz.. acid. citric., 1*s.* oz.; camph. flor., 2*s.* 1*d.* oz.; glycerin. c. aq. rosæ (1 in 3), 4*d.* oz.; glyc. boracis, 6*d.* oz.; hexamina. 6*d.* dr.; hyd. amm. chlor., 3*d.* dr.; iodof. præcip., 7*d.* dr.; lini sem. cont. opt., 1*s.* 4*d.* lb.; lin. terebinth., 6*d.* oz.; liq. hamamel., 5*d.* oz.; menthol, 1*s.* 2*d.* dr.; ol. anisi, 2*d.* dr.; ol. bergam., 1*s.* 1*d.* dr.; ol. caryoph., 6*d.* dr.; ol. menth. pip. redest., 1*s.* 2*d.* dr.; ol. ricini, 2*d.* oz.; ol. terebinth. coml., 3*d.* oz., 4*s.* 2*d.* pint; pot. iodid., 5*d.* dr.; sacch. lact. pulv., 4*d.* oz.; safrol, 3*d.* dr.; sp. camph., 1*s.* 1*d.* oz.; tinct. myrrhæ, 1*s.* 1*d.* oz.; ung. resinæ, 6*d.* oz. *Compressed Tablets.*—Blaud pill, 5-gr., 100, 1*s.*; mercury with chalk, 1-gr., 25, 6*d.*; pepsin, 2-gr., 25, 1*s.*; phenacetin, 5-gr., 25, 1*s.* 6*d.*; quinine bisulphate, 2-gr., 25, 2*s.* 3*d.* *Lozenges.*—"Brompton" cough, 7*d.* oz.; ginger (super), 6*d.* oz.; ipecac., 6*d.* oz.; pot. chlor., 6*d.* oz.; peppermint (best), 6*d.* oz.; red gum, 6*d.* oz. *Packed Goods.*—Camphorated oil, 2-oz., 2*s.*; chemical food, 4-oz., 1*s.* 8*d.*; cold cream, 1-oz., 1*s.*; eau de Cologne, 2-oz., 4*s.*; essence of ginger, 1-oz., 1*s.* 3*d.*; glycerin, 3-oz., 1*s.* 8*d.*; insect powder, 1-oz., 1*s.*; lavender water, 2-oz., 4*s.* 6*d.*; liquid paraffin, 4-oz., 1*s.* 4*d.*; violet powder, 4-oz., 1*s.* 3*d.*

C C

Index Folio 949

Preventing Venereal Disease.

A deputation from the Society for the Prevention of Venereal Disease waited on the Minister of Health on July 2 to put forward proposals for facilitating the supply of means of preventing venereal diseases. The deputation was introduced by Lord Willoughby de Broke, who called attention to the resolution passed by the Society on June 3 (*C. & D.*, June 5, p. 57), which suggests, among other means of preventing venereal diseases, that local authorities shall "instruct all qualified chemists to sell such means of immediate self-disinfection against venereal disease as may be approved from time to time by the Ministry of Health or by medical officers of health." It was stated by members of the deputation that there has been an increase in venereal disease. The Minister of Health, in reply, said they did not really know at present whether venereal disease is increasing or not, because they had never had data supplied properly and scientifically ascertained. All they knew was that there is a great increase in the number of people attending centres, but that might be due to the general public enlightenment on the subject. With regard to self-disinfection, if the Government took the responsibility of issuing throughout the country the kind of instruction suggested by the Society they must have an overwhelming case in order to contend against the deep-rooted national opinion which would say that the Government were encouraging vice. In Manchester there had been established an experimental centre, where instruction was given in prevention, and he was informed that the results so far were encouraging. That experiment was being conducted by the municipality, and the Ministry were anxiously watching it. They were just as anxious as the deputation to take any practical measures that could be firmly recommended for the treatment and prevention of the disease, and as soon as they had sufficient basis of ascertained results he would be prepared to take any steps those results justified.

Contracts.

The following tenders have been accepted by the bodies named:

Dover Town Council.—Forster & Co., chemists, drugs, etc.; The "Sanitas" Co., Ltd., and Mr. J. Weir, disinfectants.

North Bierley Guardians.—Harrison, Parkinson & Co., chemists, Bradford, drugs, etc.

Romsey Guardians.—Mr. F. Oram, Ph.C., drugs, etc.

West Bromwich Guardians.—Burgoyne, Burbidges & Co., Ltd., drugs.

York Guardians.—Mr. F. A. Newey, chemist and druggist, disinfectants.

Poisonings.

The following cases of fatal poisoning have been recorded since our last report:

At Birmingham, Alfred J. Taylor, engineers' fitter, committed suicide by taking potassium cyanide.

A verdict of "Death by misadventure" was returned at an inquest held by the City of London coroner, on July 3, on the body of Catherine N. McKnight, a schoolmistress. Dr. Bernard Spilsbury said that death was due to the inhalation of chloroform, used, perhaps, in order to induce sleep while the deceased was suffering from toothache.

Birmingham.

Birmingham is to be linked up with London in the new air-mail to Holland.

A suburban resident had a nasty shock the other day when he went into a shop to purchase edible honey. The assistant enigmatically explained that the price was "the cost of sweetening."

The pupils at the Women's Hospital, Upper Priory, recently paid a visit to Messrs. Southall Bros. & Barclay's works at Saltley, where they were shown, under the guidance of Mr. E. W. Mann, B.Sc., F.I.C., and Mr. Perks, some of the mysteries of wholesale pharmaceutical processes.

A mild sensation has been caused here by the recent statement of a medical witness in the County Court, to the effect that sanatorium treatment for tuberculous patients is merely educative. The chairman of the Birmingham Insurance Committee has made it known that he considers the treatment primarily curative.

At Birmingham Police Court, on July 1, George Alfred Holland (25), described as a manufacturing chemist, was charged, together with two other men, with stealing and receiving goods valued at 199*l.*, the property of Parton, Son & Co., Ltd., hairdressers and sundriesmen, Bull Ring. It was stated for the prosecution that goods purchased by Messrs. Parton, on the suggestion of Holland, were already their own property. Holland pleaded "Guilty." All the men were committed for trial.

Liverpool.

The Lord Mayor has invited a number of members of the city council and other citizens to meet the British Pharmaceutical Conference at the Town Hall reception on July 19.

Mr. John Cleworth, President of the Manchester Pharmaceutical Association, travelled from Colwyn Bay, on July 5, and joined a group of Liverpool and district pharmacists, who were photographed in view of the coming Conference.

It is suggested that pharmacists, following the example of the University of Liverpool and the medical profession, should read the lessons at the Cathedral service which is to mark the visit of the British Pharmaceutical Conference.

"The Government, by the large increase of the spirit duty, is killing the British perfume trade," declared a traveller to a local pharmacist the other day. In reply, the pharmacist admitted the excessive nature of the duty, but exhibited invoices he had just received for a 120*l.* consignment of perfume.

In view of the private controversy likely to arise at the British Pharmaceutical Conference on the etymology of the name "Liverpool," Mr. Robert Gladstone, an erudite member of the Liverpool Athenæum, has communicated to the Press the results of the latest research. He discounts the "Litherpool" theory.

At Liverpool Police Court, on July 1, two Chinamen were each sentenced to six weeks' imprisonment and ordered to be deported for being in unauthorised possession of opium. The police, on raiding the house, discovered forty-five tins of prepared opium, nine blocks of raw opium, and "a bucket of opium ready for boiling."

A central-area pharmacist who is pestered for methylated spirit on Wednesday afternoons by women, asked one of these creatures this week what she wanted the stuff for. "For my shoulder," was the reply. He shrewdly rejoined: "I cannot sell it for outward application. I only sell it for drinking!" "Well," admitted the woman, "I want it to drink." She got a stern rebuke, and fled.

At Liverpool Police Court, on July 6, W. H. Jackson, 157 Great Homer Street, was fined 75*l.*, with 10*l.* costs for selling methylated spirit as a beverage. Four summonses had been taken out, and three of them were found to be proved. A police witness said that sixpennyworth of spirit weighed 3 oz. It cost 6*s.* 5*d.* a gallon wholesale. The sixpennyworth was equal to 1*l.* 3*s.* a gallon, or 415 per cent. profit. Defendant gave 8½ oz. for 1*s.*, equivalent to 12*s.* 9*d.* a gallon, or 196 per cent. profit. The defence was a denial of knowledge of the purpose for which the spirit was purchased. The defendant was allowed a month in which to pay.

Manchester.

Mr. F. W. Bates, J.P., chemist and druggist, Brooks's Bar, chairman of the Manchester Pharmaceutical Committee, has returned from a holiday on the Norfolk Broads.

Manchester chemists, particularly those intimately connected with the Manchester Pharmaceutical Association, will be sorry to hear of the sudden death of Mr. Harry Haworth, late of Stockport Road Longsight. (See p. 61.)

Mr. J. Cleworth, President of the Manchester Pharmaceutical Association, has just returned from a well-earned rest on the North Wales coast. During his visit he had

many interesting chats with a large number of his brother pharmacists, and spent several hours with a well-known Manchester colleague, Mr. Harry Kemp, who lives in a delightful residence, nearly 200 feet above sea-level, at Old Colwyn. Mr. Kemp is living in retirement, and spends many pleasant hours in his large garden. His many friends will be pleased to learn that he is now in much better health.

Sheffield.

Payments to chemists for Insurance work for the past month amount to 1,403*l.* 4*s.* 8*d.*

Mr. H. G. Fletcher, chemist and druggist, is unwell, and will have to reduce his pharmaceutical activities.

Mr. Hobson, chemist and druggist, has secured an interest in the business of Mr. F. G. Roebuck, Abbeydale and Totley Rise.

Exell Brothers have made extensive alterations to their Ellesmere Road Establishment, and have now one of the largest windows in the city.

Miscellaneous.

WINDOW-SMASH.—On June 30 a runaway horse dashed into a window at the pharmacy of Mr. B. Dyer, chemist and druggist, Honiton, causing considerable damage.

IN THE COURTS.—At Thames Police Court, London, on July 2, Henry Leland was given two months' imprisonment for being in unauthorised possession of 178 lb. of opium (*C. & D.*, July 3, p. 66). James Daley, who had been arrested in connection with the same offence, was discharged.—At the same Court, on July 3, a Japanese seaman was remanded, and another was fined 50*l.*, for being in unauthorised possession of cocaine. The evidence showed that the former of these men was found to be in possession of cocaine when arrested, and on visiting a ship in the Victoria Dock eleven "bottles" of the alkaloid were discovered.—At York Quarter Sessions, recently, H. Kidd, motor mechanic, was bound over on a charge of attempting suicide by taking laudanum.

BATH COLLEGE OF PHARMACY.—The closing of the recent session was made the occasion of a presentation by the students to the principal (Mr. D. J. Williams) of the Bath College of Pharmacy. Mr. H. T. Hall, in making the presentation (a fitted attaché-case), said that the students appreciated the efforts Mr. Williams had made to ensure their success, and asked his acceptance of the case as a token of their goodwill and appreciation. Mr. Williams, in accepting the gift, said that the presentation had taken him completely by surprise. He would not have been able to make the session the success it had been had he not had the loyal and energetic co-operation of his staff, and he could not allow the occasion to pass without acknowledging it. He wished all the candidates success in the examination and afterwards. The proceedings terminated with the singing of "For he's a jolly good fellow" by the students.

Irish News.

Brevities.

Mr. G. F. Langford, a departmental manager of Lumex, Ltd., photographic specialists, 35 Dame Lane, Dublin, created a new golf record recently in the qualifying round for the Scratch Cup of the Milltown Club. His total score was 72.

Dr. Houlihan reported to the Birr Board of Guardians that he is urgently in need of medicines, and the clerk said he wrote six letters to the contractor (Mr. Golden) about the matter. The Guardians protested against this treatment, and again wrote the contractor to carry out the terms of his contract.

A private conference was held last week between the Committees of the Chemists' and Druggists' Society of Ireland and the North Irish Pharmacists' Association. Mr. Hugh Crail, President of the latter, occupied the chair, and Mr. Fred Storey, President of the Chemists' and Druggists' Society, was also present.

On July 1 Mr. Huston Lancashire, J.P., chairman of the Ballymena Urban Council, proceeded to the Ballymena War Memorial Park and placed, near the entrance gate, a wreath bearing the following inscription: "In glorious and imperishable memory of those brave men from this town and district who by their valour nobly upheld the traditions of the Imperial Province of Ulster and fell at the Battle of the Somme, July 1, 1916. God save the King."

Chemists' Excursion.

The annual excursion of the Chemists' and Druggists' Society of Ireland was revived this year, and took place on June 29, to Crawfordsburn. Mr. John Frackelton had made arrangements for the party, which travelled from Belfast by the 1.55 P.M. train, and a delightful afternoon and evening was spent in the midst of beautiful scenery. Mr. Fred Storey, President of the Society, and Mrs. Storey extended a welcome to the members and friends. Among those present were Mr. Joseph Moffett, Mr. R. D. Sandford, Mr. S. Suffern, Mr. J. D. Carse, Mr. S. Nevin, Mr. John Adams, Mr. R. Kells, Mr. Samuel McDowell, Mr. Bell (Messrs. Dobbins), and Mr. McKinstry. After tea at the village inn a musical programme was gone through, and at the close Mr. Storey moved a vote of thanks to the artists and to Mr. Frackelton, which was carried by acclamation. Belfast was reached at a late hour.

Scottish News.

Brevities.

Now that *locum tenentes* are more plentiful, many chemists are taking an extensive holiday to make up for the deficiency of the past four or five years.

Mr. W. Murdoch Cumming, B.Sc. (British Dyestuffs Corporation, Ltd.), has been appointed senior lecturer in organic chemistry at the Royal Technical College, Glasgow.

An illustration of Edinburgh University's new chemistry school, the building of which has just been commenced, appears in the "Evening Dispatch" of July 6. The frontage of the building will extend to 200 feet.

Mr. Thomas Currie and Mr. Charles S. C. McDonald, who have pharmacies in Auchtermuchty, announce in the local Press that their shops will in future be open on alternate Sundays at specified hours. When there is a fifth Sunday in the month both will be open on that day.

Two sons of Mr. W. G. Robertson, Ph.C., Cupar, have just graduated at St. Andrews University, Mr. W. G. Robertson, jun., as M.B., Ch.B., and his younger brother, Mr. Peter C. Robertson, as B.Sc. They were on active service during the war in the Navy and Army respectively.

"Your comments on percentage increases in retail prices (*C. & D.*, July 3, p. 82)," writes a correspondent, "show that, according to accepted statistics, chemists' retail prices are a long way behind those of other trades. The passing into law of the Increase of Rent (Restrictions) Bill means increased rents and taxes, and forms an additional reason why prices (and wages) should be immediately increased."

THE Bradford Technical College authorities are appointing a part-time lecturer in materia medica, pharmacy, and dispensing.

NIGERIAN KOLA.—The Gold Coast variety of kola can be successfully cultivated in many parts of the Southern Provinces, says the Lagos Comptroller of Customs. In some districts the farmers have found that it is even a more profitable crop to grow than cocoa. Each year about 200,000*l.* worth of kola is imported from the Gold Coast; efforts are therefore being made to encourage the extensive cultivation of this crop. With this object in view, the Agricultural Department has, during the last two years, distributed about 73,000 kola-seeds and 27,000 kola plants to farmers.

British Pharmaceutical Conference.

SUCCESS ASSURED.

THE number of applications for tickets which has been received promises that the Conference will be a huge success, and the Local Committee is sparing no effort to ensure the comfort of its guests.

THE LADIES' EXCURSION.

Being unable, owing to unforeseen circumstances, to adhere to the original programme, the Local Committee has arranged, through the generosity of the Canadian Pacific Ocean Services, Ltd., for a ladies' excursion to that company's liner the S.S. *Minnedosa*, 14,000 tons. The engine-room of this vessel is one of the finest possessed by any boat crossing the Atlantic. Refreshments will be served on board by kind invitation of the company.

LIST OF PAPERS OFFERED.

Science Section.

"Note on Recent Samples of 'Grey' Cinchona Bark," by Bernard F. Howard, F.I.C.

"Cresineol: A Compound of Cineole and Ortho-cresol," by T. Tusting Cocking, F.I.C.

"A New Method for the Estimation of Cineole in Eucalyptus Oils," by T. Tusting Cocking, F.I.C.

"Standardisation of Tincture of Strophanthus," by C. T. Bennett, B.Sc., F.I.C.

"The Determination of Hydrocyanic Acid," by R. Leitch Morris, F.I.C.

"The Determination of Lead in Chemicals in Acid Solution," by Norman Evers, B.Sc., F.I.C.

"The Determination of Nitrate in Bismuth Carbonate," by T. S. Haines, F.I.C., and J. M. Drummond, M.Sc., A.I.C

"A Method for the Determination of Free Acetic Acid in Acetylsalicylic Acid," by A. Nutter Smith.

"Mercuric Oxycyanide," by A. J. Jones.

"An Examination of Quillaia Bark and Commercial Saponins," by Jules Cofman and S. B. Tallantyre, B.Sc., F.I.C.

"Aconite Alkaloids: An Improved Method for Their Estimation," by E. J. Chappel, A.I.C., and N. L. Allport.

"The Determination of Phenol and Salicylic Acid in the B.P. Ointments," by G. D. Elsdon, B.Sc., F.I.C.

"The Detection of Inorganic Phosphate in Glycerophosphates," by J. L. Lizius, B.Sc., A.I.C.

"Note on a Sample of Mutton Bird Oil," by Norman Evers, B.Sc., F.I.C., and H. J. Foster.

Practice Section.

"Some Ethical Problems in Pharmacy," by J. P. Gilmour.

"National Health Insurance Dispensing from the Point of View of the Sale of Food and Drugs Acts," by F. A. Anderson, F.F.I., clerk to the Insurance Committee, and G. D. Elsdon, B.Sc., F.I.C., public analyst, County Borough of Salford.

"Time as a Factor in the Cost of Dispensing," by H. Barton, Southport Association.

"Keeping Open Shop," by H. W. Wallis, Birkenhead Association.

"The Four Thousand Hours and After," by J. L. Hirst, Liverpool Association.

"Is the Packing of Our Own Proprietaries Desirable?" by R. G. Govier, Wallasey Association.

"Is the Major Examination of any Value?" by Harold Wyatt, Bootle Association.

DEAR BOTTLES IN AUSTRIA.—The purchasing organisation of Viennese pharmacists states that it is now able to supply to its members 5 cases, each containing 1,000 bottles of 100 grams capacity, at the price of 2,750 cr. per 1,000; and 4 cases, of 1,250 bottles each of 150 grams, at 3,450 cr. per 1,000. Thus the cost price of a 3-oz. bottle is 2.75 cr., nominally 2*s*. 3*d*.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

MACARTHY'S, LTD. (P.C.).—Capital, 2,500*l*. Objects: To take over the business of chemists and druggists lately carried on by W. S. Steeples at 28 Market Place, Romford, as "Macarthy's Drug Stores," and to adopt an agreement with F. C. Ritchie and E. H. Greening.

HINKSMAN & FORREST, LTD. (P.C.).—Capital, 6,000*l*. Objects: To acquire the business of chemist and druggist carried on by John Hinksman at High Street, Carluke. The first directors are: J. Hinksman, Drumbriddon, Carluke, chemist; and T. B. Forrest, Kirkstyle, Carluke, chemist. R.O.: 17 High Street, Carluke.

DERBY CHEMICAL CO., LTD. (P.C.).—Capital, 500*l*. Objects: To carry on the business of chemists, chemical and chemical-engineering specialists and experts, drug and chemical exporters and importers, etc. The first directors are: Dr. R. Watson, 161 Otley Road, Leeds; and J. K. Watson, 159 Otley Road, Leeds. R.O.: North Western Mercantile Buildings, East Parade, Leeds.

OPENSHAW & CO. (BLACKBURN), LTD. (P.C.).—Capital, 5,000*l*. Objects: To take over the business of Booth & Openshaw, Ltd., of Blackburn, and to carry on the business of wholesale and manufacturing chemists, druggists, drysalters, oil and tallow merchants, etc. The first directors are: Wm. Dobson, 6 Maple Street, Blackburn; P. Fielding, Alderley, Pleckgate Road, Blackburn; and J. Ward, 124 Whalley New Road, Blackburn. R.O.: 30 Simmon's Street, Blackburn.

A. BOAKE ROBERTS & CO., LTD.—An issue of 50,000*l*. 6 per cent. debentures of 100*l*. each at 92*l*., redeemable at par, is being made in this company.

EVANS SONS LESCHER & WEBB, LTD.—The directors have declared an interim dividend on the ordinary shares at the rate of 10 per cent. per annum, free of income-tax, payable on July 10.

J. & E. ATKINSON, LTD.—A prospectus offering 100,000 ordinary shares at 35*s*. in this company will be published shortly. A preliminary announcement to this effect is being made in our advertising columns.

SOUTHALL BROS. & BARCLAY, LTD.—The directors announce with much regret the resignation of Mr. A. W. Southall, who is leaving Birmingham to pursue a country vocation. Mr. Southall has been desirous of retiring for some time past, and carries with him on his retirement the best wishes of his late co-directors and the staff. He is succeeded by Mr. E. W. Mann, B.Sc., F.I.C., who has been on the board of directors for some years.

BAISS BROTHERS & CO., LTD.—Dividends for 1919 have been declared of 10 per cent. on the preference shares, and 1*s*. per share on the ordinary shares, this being the same as in the previous year. The directors report a further increase in the sales for the year. At the annual general meeting on July 1 the chairman referred to the burden they, in common with other houses, are bearing in the continually increasing working expenses, notably wages, and he spoke of the hampering effect on trade of the high rate of excess profits duty.

BOOTS AND REXALL.—A statement has now been issued that a new company, with a capital of over ten million pounds, is to be formed for the purpose of carrying out a working agreement between the American United Drug Co. and Boots Pure Drug Co., Ltd. It is added that Sir Jesse Boot will continue his position as chairman of the Boots' company, and that the rights of the preference and preferred ordinary shareholders will in no way be interfered with. According to the "Boston News Bureau," Liggett's International, Ltd., will merge "into one producing and selling unit, the manufacturing, distributing, and retail drug business of Canada and the British Isles, formerly owned by the United Drug Co., and the 650 drug stores of Boots, Ltd., of England, now doing a gross business of close on $40,000,000 annually."

The Profiteering Act.

Notes.

COMMITTEE'S THREAT TO BOARD OF TRADE.

THE Blackpool Profiteering Committee has decided to cease to act unless the Board of Trade removes its opposition to the appointment of two inspectors to assist in detecting cases of profiteering in the district.

ADDITIONS TO SCHEDULE.

By the Profiteering Acts, 1919 and 1920, Order (No. 10), which came into force as from July 5, the following articles are declared to be "articles of a kind in common use by the public":

Schedule.

S. The following articles of stationery:
Pen-nibs and pen-holders.
Writing-paper, pads, envelopes, and wrappers.
Blotting-paper and pads.
Memorandum, account, and exercise-books.
Packing-paper and flat papers.
Inks and gums.
Pencils.
Indiarubber.

T. All mineral-waters.

AMENDED REGULATIONS.

The following are the amended regulations for Local Committees and Joint Local Committees under the Profiteering Acts, 1919 and 1920, which were printed in the "London Gazette," July 2. The numbers refer to the regulations of the previously issued Order:

3. In the appointment of members of the Local Committee, the Local Authority shall provide that not fewer than two members of the Committee shall be women.

The Local Authority shall also provide for the adequate representation of labour and of the retail trade on each Local Committee.

6. The Local Committee may appoint a Clerk, and with the consent of the Board of Trade such other officers as may be considered necessary, and the Clerk may take proceedings on behalf of the Local Committee in a Court of Summary Jurisdiction.

13. Notices and other documents required to be delivered to the Local Committee shall be sent to the office of the Clerk to the Local Committee, and may be delivered at or sent by post to that office. Notices required to be sent to a complainant or to a respondent may be sent by post to or delivered at such person's place of business or usual or last known place of abode.

15. The complaint shall be made in writing to the office of the Clerk to the Local Committee, and shall be delivered at, or sent by post so as to be delivered at, that office within four days of the date of the sale or transaction which is the subject of complaint, or where the complaint is in respect of a hire-purchase transaction at any time during the currency of the agreement or within four days of the date upon which the final payment under the agreement is due to be paid, or in any case within such extended time as may be allowed by the Local Committee in any particular case, provided that in no case shall the time be extended beyond fourteen days without the consent of the Board of Trade.

16.—(I.) The Local Committee shall, within seven days of the receipt of a complaint or within such extended time as may be allowed by the Board of Trade in any particular case, forward to the respondent a copy of the complaint with an intimation that if a *primâ-facie* cause of complaint is disclosed on the preliminary investigation he will receive due notice of the date, time, and place of the hearing of the complaint.

(II.) The written complaint shall be considered by the Local Committee, and in any case in which the Local Committee are of opinion that the complaint does not give the required particulars, or does not disclose *primâ-facie* grounds for hearing the complaint, it shall be competent to the Local Committee (*a*) after giving the complainant an opportunity of being heard to dismiss the complaint without calling upon the respondent; or (*b*) to notify the complainant that unless further and better particulars or grounds of complaint, as the case may be, be given the complaint will be dismissed; and in the latter case unless such further and better particulars, or grounds of complaint, as appear to the Committee to justify further action on their part, are delivered to them not more than three days after such notification has been sent to the complainant, or within such extended time as may be allowed by the Local Committee, the complaint shall be dismissed.

22. If upon the hearing of the complaint the Local Committee are satisfied that a profit has been made or sought, which is in view of all the circumstances unreasonable, the Local Committee shall declare the price which would yield a reasonable profit, and shall require the seller to repay to the complainant any amount paid by the complainant in excess of such price, and they may also take proceedings against the seller before a Court of Summary Jurisdiction.

Provided always that in declaring the price which would yield a reasonable profit the profit sought or obtained shall not be deemed unreasonable:

(*a*) In the case of a seller who was in the same way of business before the war, if the percentage rate of profit sought or obtained does not exceed the percentage rate of profit obtained by him upon the sale of similar articles before the war, due consideration being given to the relative costs and charges of carrying on the business; and (*b*) in the case of a seller who was not in the same way of business before the war, if the percentage rate of profit sought or obtained by him does not exceed the average percentage rate of profit obtained by sellers in that way of business under similar conditions on the sale of similar articles before the war, due consideration being given to the relative costs and charges of carrying on the business.

The above-mentioned proviso shall not apply in any case where the profit in respect of any transaction has been fixed by a scheme approved by the Board of Trade under Section 1 of the Profiteering (Amendment) Act, 1920. It is further provided that where any scheme has been approved by the Board of Trade under Section 1 of the Profiteering (Amendment) Act, 1920, any profit sought or obtained on the sale of any article to which the scheme relates which does not exceed such profit as is allowed by the scheme shall not be deemed to be unreasonable.

Complaints.

BLACKPOOL.—At the sitting of the Profiteering Committee on July 5, a complaint against the Nazone Medicine Co. in respect of charges for four bottles of Nazone was down for hearing. It was stated, however, that a letter had been received from complainant explaining that he was unable to be present. Mr. Goodwin, for the firm, denied there was any profiteering. On the contrary, the price charged resulted in actual loss. The complaint was dismissed.

CAMBRIDGE.—At a recent sitting of the Profiteering Committee, a complaint was investigated regarding a sale of boric lint by Mr. W. F. Turner, chemist and druggist, Trinity Street, at the rate of 6*s.* 6*d.* per lb. The complainant stated that the price charged for a similar article at a local branch of Boots, Ltd., was 4*s.* 6*d.* per lb. Mr. Miller, solicitor, who appeared for the respondent (instructed by the Chemists' Defence Association, Ltd.), asked whether, seeing that the purchase was understood to have been made on February 22, the consent of the Board of Trade to an extension of the regular time within which complaints may be presented had been obtained, and whether the time of sale counted from the delivery of the invoice. It was the fault of the complainant, he suggested, if he did not ask the price when ordering the boric lint. If the consent of the Board of Trade had not been obtained the Committee, Mr. Miller pointed out, was bound to dismiss the case forthwith. The complainant attempted to address the Committee, but objection was successfully raised. The complaint was dismissed.

THE CUBAN MINISTER OF HEALTH has issued a decree forbidding manufacturers of pharmaceutical preparations from retaining or creating a monopoly of the sale of their products. Thus it is now prohibited to entrust the monopoly of the sale of any product to a sole agent, and any infringement will be punished, to the extent of suspending the sale.

PORTUGUESE OLIVE OIL.—There are in Portugal about 330,000 hectares of olive trees, producing about 580,000 hectolitres of oil. The value of this before the war averaged 564 contos; in 1916 it rose to 912 contos, and is still rising. Portugal is the third olive-oil producing country, Italy and Spain alone exceeding it. There are over 5,200 mills and 16,300 presses in the country.

Legal Reports.

Strength of Saccharin Tablets.—At Liverpool Police Court, on June 30, Brook, Parker & Co., Ltd., manufacturing chemists, Bradford, were summoned at the instance of Boots Pure Drug Co., Ltd., Nottingham, for having sold saccharin tablets to which a false trade description was applied. Mr. A. W. Bramall, for the prosecution, said that an agent of Messrs. Boots purchased from a retail chemist in Liverpool on separate dates samples of saccharin tablets in boxes marked "100 tablets, half-grain, full strength." These, on analysis, were found to be deficient in saccharin to the extent of about 33 per cent. Evidence as to the composition of the tablets was given by Mr. H. D. Richmond, F.I.C., chief analyst to Boots Pure Drug Co., Ltd. Mr. W. Procter, for the defence, admitted the deficiency and the sale, but asked the stipendiary magistrate to find that the defendants had acted innocently in the matter. About the time when the tablets which were the subject of the charge were being dealt with at the factory, structural alterations were in progress, and the only explanation of the case was that either a workman had emptied tablets into the wrong bin, or that a girl in packing had taken tablets out of a bin containing a different strength from that which was required. It was an isolated instance in the whole course of their business career. The stipendiary, after hearing a member of the company, said there was evidence that would justify him in saying that the defendants had acted innocently. The prosecution had been rightly instituted, and would serve a very useful public purpose, because there was no doubt that if the public were not protected by proceedings of this kind they would have inferior goods palmed upon them. In the case of saccharin, that was a very easy thing to do. He imposed a fine of 10*l.*, with 21*l.* costs.—A similar charge was brought against Fred Westby Lomax and William Sumner Lomax, trading as Fred W. Lomax & Co., manufacturing chemists, Bridge Street, Manchester. Mr. Bramall said the tablets were sold to the same retailer as in the last case, and on analysis, at the instance of Messrs. Boots, were found to be deficient to the extent of from 30 to 40 per cent. The fact that the percentage varied in each of the three samples taken would indicate that the whole of the tablets were not the product of one mixing. The defence was that the case was due to an error on the part of a man who was no longer in the service of the defendants. The stipendiary said he was of opinion that this was a bad case of fraud; there was no other way of describing it. Each defendant would be fined 20*l.*, with 11*l.* 11*s.* costs.

Pharmacy Acts (Ireland).—At the Monntmellick, Queen's County, Petty Sessions, on June 28, before Mr. M. Hornibrook, resident magistrate, four summonses, at the suit of Mr. Patrick Butler, inspector of the Pharmaceutical Society of Ireland, were heard against Mr. John Leavy, R.D., of the Drugs and Medical Hall, 22 Patrick Street, Mountmellick, charging him with breaches of the Pharmacy Acts. In one summons he was charged with having, on April 29, 1920, at 22 Patrick Street, Mountmellick, unlawfully kept open shop for the dispensing or compounding of medical prescriptions, he not being a person qualified in that behalf, contrary to Section 30 of the Pharmacy Act (Ireland), 1875. A second summons charged him with the commission of a similar offence on May 6. In a third summons he was charged that, on April 29, while lawfully keeping open shop for selling poisons, he did not personally manage and conduct such shop, and the retailing of poisons therein, and did not employ for the purposes mentioned as assistant or manager a duly registered chemist and druggist or registered druggist or pharmaceutical chemist or licentiate apothecary, contrary to the Pharmacy Act (Ireland), 1875, and the Pharmacy Act (Ireland), 1875, Amendment Act, 1890, Section 17. A fourth summons charged the defendant with a similar offence on May 6. Mr. William C. Meeke, solicitor, appeared for the Pharmaceutical Society of Ireland, and Mr. R. J. Fetherstonhaugh, solicitor, for the defendant. Mr. Meeke referred the magistrate to the sections of the Acts on which he relied to establish the case against the defendant. Inspector Butler ave evidence to the effect that on April 29 he went to the defendant's establishment in Mountmellick and handed John Duffy, the manager, a prescription from a local doctor. He saw Mr. Duffy compound it in a rather enclosed place at the end of the drug-counter; he saw him take drugs from various bottles while he was preparing the mixture. He labelled the bottle beside witness on the counter, and wrote directions on it, and handed witness the mixture, for which he paid him 2*s.* 6*d.* Witness also purchased 4*d.* worth of laudanum, and other items. After witness entered, Mr. Leavy came into the drug-store, but remained only a few minutes. John Duffy told witness that he came from Ballybay, that he went to business at thirteen years of age, and that he was now about eighteen years. Witness gave evidence of a second visit to the establishment on May 6, when he had a similar experience. On that occasion Mr. Duffy told him that Mr. Leavy was absent in Dublin for the past week and had not returned. Mr Meeke produced the Register of the Pharmaceutical Society and the Medical Register in support of his case. Mr. Fetherstonhaugh said his clients should have had some notice from the Society. Mr. Meeke said that a cautionary notice had been sent to him as far back as 1905. After some discussion, Mr. Meeke expressed his willingness to accept a fine of 5*l.* on the summons for keeping open shop on April 29, with 1*l.* costs, and a fine of 1*s.* on the second summons for April 29, with 1*l.* costs in that case also, and to withdraw the other two summonses. Mr. Hornibrook made an order to this effect. The fines and costs were paid immediately.

Aniseed Oil Speculation.—In the City of London Court, on July 6, before Judge Atherley-Jones, K.C., Mr. Max Poppmacher, produce broker, 9 Mincing Lane, E.C., sued Mr. Alexander Laing, produce merchant, of the same address, for 4*l.* 19*s.* 3*d.* in respect of ten cases of aniseed oil, made up of 1*l.* 8*s.* 3*d.* for twelve weeks' rent and 1 per cent. commission on 355*l.* 10*s.* 6*d.* Mr. Harry Strouts, plaintiff's solicitor, said that the plaintiff bought twenty cases of aniseed oil for himself. A few days afterwards he saw the defendant, and at defendant's request he bought another twenty cases. That oil was subsequently sold. There was a profit on one of the lots, and defendant received his share; and the plaintiff now claimed his usual brokerage of 1 per cent. commission on the deal in respect of the second twenty cases of oil. He also claimed half the rent in respect of one of the lots of oil, and the defendant had paid that into Court Plaintiff said that on October 7 he bought the first twenty cases from Lewis & Peat for his own account, and he paid 342*l.* 7*s.* 9*d.* for it. Next day defendant instructed him to buy another twenty cases for his account, which he did, buying from Thorpe & Wren. He paid a similar sum of 342*l.* 7*s.* 9*d.* for them, and defendant gave him his cheque for that sum. The oil was lying at Mark Brown's wharf. He had had no previous transactions with the defendant, but he happened to be defendant's tenant. He watched the market every day, and at last it reached 5*s.* 10½*d.* per lb., he having bought the oil for 5*s.* 4½*d.* When the oil reached the larger figure he saw the defendant and said he was selling his own twenty cases. As it happened, he sold the Thorpe & Wren cases. To avoid any query he agreed that half should go to his account and the other half to the defendant's. Now he was claiming commission on the whole twenty cases that he bought and re-sold on the defendant's account. There was a profit of 6*d.* per lb. on the oil. He was acting as the defendant's broker all the time. The Judge: So far it is an action between principals. Plaintiff said he paid the defendant 14*l.*, half of the 28*l.*, which was the profit on the re-sale of the oil. As for his own twenty cases which he bought of Lewis & Peat, he re-sold them to Lewis & Peat at 5*s.* 4½*d.* per lb. Consequently he made no profit on those. The whole forty cases were lodged at Mark Brown's wharf, and on March 15 he paid Lewis & Peat 4*l.* 6*s.* for rent. His business was entirely that of a broker, except that

sometimes he dealt for himself. Usually he sent customers a contract note, but the defendant expressly asked him not to do so. Mr. G. Double, defendant's solicitor, said that the whole transactions were joint ventures. Plaintiff and defendant agreed to have a deal in oil, and they did so. They settled up and divided the profits. It was only when defendant wanted his rent and took proceedings in that Court that the plaintiff made a claim for commission. The Judge said he could not see that there was anything to entitle the plaintiff to brokerage. It would be very unusual for a broker who sold on behalf of a client to share the profit with him. As there was a boom coming on in aniseed oil the plaintiff and defendant decided to go in for a joint venture. At first he thought it was benevolence on the part of the plaintiff, but then it turned out that the defendant bore one-half of the price. The benevolent element therefore vanished. Judgment for the defendant (beyond the money paid into Court), with costs.

Saccharin Contract.—In the King's Bench Division on July 1 Mr. Justice Avory had before him an action brought by the Austin, Baldwin Co., Incorporated, New York, to recover damages for alleged breach of contract on the sale of saccharin from Wilfred Turner & Co., 30 Craven Street, Strand. Defendants denied liability. Mr. James Wylie appeared for plaintiffs and Mr. H. C. Marks represented the defendants. In opening the case counsel said this was a claim by an American corporation for 9,000*l.* damages for failure by the defendants to take delivery of a quantity of saccharin. The contract was contained in letters and cables, defendants agreeing to buy from plaintiffs 500 lb. of Monsanto saccharin, delivery monthly for a period of one year commencing January 1919, at 11 dollars a lb. f.o.b. New York. The first question would be what on the documents were the exact terms of the contract. In these documents the defendants undertook to get the necessary licences, but it turned out they were unable to get from the British Government the necessary permission or consent to have the saccharin imported into this country. The American Government had by proclamation prohibited the export from the United States of certain articles which included saccharin, but there appeared to have been an arrangement between the two Governments that if the British Government desired to recommend the import the American Government would grant a permit. Defendants could not get the necessary permission and repudiated their contract. Plaintiffs said the agreement of the defendants was this, that if the licences were not obtainable from the U.S. Government to export the goods the saccharin should be delivered to the defendants' New York agents. Defendants' answer to the claim was that the contract was entered into subject to all the licences being obtained, and these they were not able to secure. He (Mr. Wylie) contended that as the prohibition against the export of saccharin concluded on December 20, 1918, the defendants had a month to take delivery. The terms of the contract were such as to give two alternative ways of carrying it out—f.o.b. New York or delivery to defendants' agents in New York even were it impossible to export to England. Mr. Duncan C. Lee, a member of the British Bar and the New York Bar, said that in September or October 1918 there was nothing in the proclamation to prevent the making of a contract such as this. In regard to goods for export a contract would be subject to licence, and he understood that licences were not issued without the recommendation of the British Government. Mr. Cyril D. Haylett, secretary of the plaintiffs' London branch, said the average price of saccharin for the first six months of 1919 was $5.30. In the last six months it was about $3.75, and the average for the year slightly over $4.50. In cross-examination witness said there was a falling market from January to July, and after that it was a stationary market. Asked as to how he got these figures, the witness stated that the first six months were taken from the *C. & D.* Mr. Marks contended, on behalf of the defendants, that if his lordship regarded the correspondence and cables more closely, he would be satisfied there was no true consensus between the parties, and that there was never a completed contract. The hearing was adjourned.

Riot Claim.—At Enniskillen Quarter Sessions, on June 28, before Judge Johnston, a claim was brought by Mr. Robert Stevenson, R.D., for 5,000*l.* compensation for damage to his stock during a raid on May 12, in which the Income Tax Offices were burnt (see *C. & D.*, July 3, p. 68). The shop is on the ground floor, and the stock was damaged by water. Malice was admitted by the respondents, the county and urban councils. Mr. Robert John Hardy, M.P.S.I., of Boileau & Boyd, Dublin, said he had made a valuation of the damaged stock in Mr. Stevenson's premises, and he had treated this as if of no value. The total amount of his estimate for all the goods and fittings that would have to be replaced was 876*l.* 14*s.* 3*d.* Dr. Lipsett, for the applicant, explained that the total stock in the shop at the time of the fire was valued at 1,800*l.*, so that there was 1,000*l.* worth of goods not included in Mr. Hardy's list. The witness further stated that the weekly turnover in the establishment would be from 35*l.* to 50*l.* a week, of which about 20*l.* a week ought to be profit. Mr. Robert Stevenson said he had been in business for seven years, and latterly his turnover had been rapidly increasing. On May 12, when the fire took place, he had on his premises between 1,800*l.* and 1,900*l.* worth of stock. It would take about 100*l.* to repair the damage done to his kitchen, hall, bedroom, and staircase. With reference to his claim for consequential damages for loss of trade, he said it would be about three months before he could open his premises again. His loss per week would be from 20*l.* to 25*l.*, and it would take him about twelve months to work up his business again. Customers have gone elsewhere, and, owing to the business being closed, it will take some time to get them all back. He paid 45*l.* a year rent to Dr. Dickson, and also about 16*l.* a year in taxes. The capital brought into the business was a little over 200*l.* Major Falls, cross-examining: And you say that, starting with a capital of 200*l.*, you have amassed 5,000*l.* in seven years?—No, I do not say so. But you are claiming 5,000*l.* damages now, after living comfortably and keeping a motor-car for seven years?—No, I have only had a motor-car, which I use for business purposes, for the past year-and-a-half. This car which I have at present I might say cost me nothing, as I sold my old car well, and with the profit bought this one. Do you pay income tax?—I don't think that is a question that comes into this case. Major Falls: I beg your pardon, it does, for you state that you are making over 1,000*l.* a year profit in your shop, and you are claiming consequential damages accordingly. Witness said he paid income tax, but he declined to say on what amount. In this he was sustained by the judge. Witness further stated that he did a wholesale veterinary business, and had other side-lines as well. Mr. James Martin, traveller for a Belfast wholesale druggist, said he had taken stock of everything in the place, and the total sum was 1,869*l.* 16*s.* 4*d.* He reckoned that about 400*l.* worth of these goods were undamaged and about 250*l.* worth partly damaged, which could still be sold. The latter would realise about half-price, say, 125*l.* In reply to questions, witness stated that all chemists in the North of Ireland, whether in town or country, sell the same goods at the same prices. These prices are settled by the Ulster Trade Prices Association, and a list is sent to each chemist. Mr. Stevenson's weekly figures showed from 50*l.* to 60*l.* per week turnover. Witness stated that his firm supplied about one-fourth of Mr. Stevenson's stock, and witness's account with him was from 40*l.* to 50*l.* a journey, which was every five weeks. On his turnover Mr. Stevenson should make at least 33 per cent. profit. His Honour, in giving judgment in all the claims arising out of the burning of the Income Tax Offices, said, in Mr. Stevenson's case, he awarded 1,550*l.*, of which 1,200*l.* was for drugs and other things destroyed, and 350*l.* for consequential damages. He differentiated the two in order that he might know, and that the county council might know, the sum he was awarding as consequential damages.

Pharmaceutical Society of Great Britain.

Council-meeting.

A MEETING of the Council was held at 16 Bloomsbury Square, London, W.C., on July 6 and 7. The proceedings on July 6 were private, and the following note was supplied officially:

DANGEROUS DRUGS BILL.

The President reported on the negotiations which had taken place between the Society and the Home Office upon this Bill, and upon the draft amendments submitted by the Under Secretary of State to Mr. Woolcock to be moved with the object of meeting the Society's criticisms of the Bill. It was agreed that the amendments were satisfactory so far as they went, but that suggestions for modifications be made, and that it be left to the President to sanction the acceptance by the Society of the amendments as they may be agreed upon in their final form, or, failing agreement, to get amendments moved on behalf of the Society in Grand Committee.

SCHOOL EXAMINATION.

The report on the School examination was received, and the following prizes were awarded:

Botany.—Bronze Medal, Douglas Stephenson; Certificates of Honour, Ernest Arthur Price; John Walker, Marion Louise Chamberlain (equal).

Chemistry.—Bronze Medal, Douglas Stephenson; Certificates of Honour, Warwick Marsh, Leslie Gerald Matthews.

Practical Chemistry.—Bronze Medal, George Frederick Jones; Certificates of Honour, Francis Henry Newman, Edmund Brunyd Timm (equal); Frederic John Dyer, Douglas Stephenson (equal).

Materia Medica.—Bronze Medal, Douglas Stephenson; Certificates of Honour, Margaret Beatrice Davis, John Frederick Hart.

Pharmacy.—Martindale Memorial Medal in Silver, John Frederick Hart; Certificates of Honour, Douglas Stephenson, George Lightfoot (equal); Kingsley McKee.

The C. J. Hewlett Memorial Exhibition was won by Douglas Stephenson.

The meeting was resumed in public on July 7, the President (Mr. E. T. Neathercoat) in the chair. All the members of the Council were present, excepting Mr. J. R. Young. The minutes had been read at the private meeting. There were no questions.

ELECTIONS AND RESTORATIONS.

It was agreed that ten persons be elected members of the Society, that eighty-one be elected student-associates, and that two be restored to the Register. The secretary reported that since the last meeting 125 apprentices had been registered as students.

JACOB BELL AND MANCHESTER SCHOLARSHIPS.

The secretary presented a report with regard to the Jacob Bell and Manchester Scholarships competition held on June 15. No candidate having succeeded in gaining the requisite number of marks in the former, the examiners were unable to award the scholarship this year. Two candidates sat for the Manchester Pharmaceutical Association's scholarship, the successful one being Miss Edith Winifred Pilkington.

The PRESIDENT, commenting on the unsatisfactory result of the Jacob Bell examination, pointed out that the people who would have gone in for it in ordinary circumstances had been otherwise engaged during the war.

Mr. HINES suggested that the Library Committee should be asked to consider the conditions of the Bell scholarship in order to see how far they were applicable at the present day.

After a brief discussion, the PRESIDENT said that, though this had been an abnormal year, he thought the Library Committee might take the matter into consideration, and in view of what Mr. Hines had said he would ask them to do so.

HERBARIUM COMPETITION.

Mr. E. M. Holmes was reappointed examiner to conduct the Herbarium Competition. The staff of the School of Pharmacy was also reappointed.

CORRESPONDENCE.

The secretary intimated the receipt of the Privy Council's approval of the appointments of new examiners.

The British Pharmaceutical Conference wrote inviting delegates from the Council to attend the forthcoming annual meeting at Liverpool.

Mr. SKINNER remarked that out of those who accepted the invitation last year only three turned up at the Conference. (Laughter.)

The PRESIDENT: It is a matter for each individual conscience.

Mr. WHITE suggested that the Conference would afford a good opportunity for the discussion of matters by a joint meeting of members of the Library Committee of the Society and the Conference. It was agreed that the meeting should be arranged.

The members intimating their intention to attend the Conference were: The President, Miss Buchanan, and Messrs. Deakin, Keith, Melhuish, Parry, Skinner, and White, together with the editor of "The Pharmaceutical Journal" and the secretary. Sir William Glyn-Jones, however, expressed his doubt as to the likelihood of his being present.

Letters were received from the North British Branch of the Society giving reports of the election of the Executive and of subsequent meetings.

The Amalgamated Society of Pharmacists, Drug, and Chemical Workers wrote enclosing a resolution of the Executive asking for recognition of the Union by the Society and representation on bodies whose constitution allowed for the co-option of members of bodies outside the Pharmaceutical Society.

Mr. SKINNER said that the letter of the Union referred to any bodies that might be set up in connection with the public services. The PRESIDENT said the matter should be borne in mind.

A letter from the same society enclosed a resolution urging that persons who had passed the Qualifying examination should have the full privileges in regard to the three additional subjects mentioned at the annual meeting (*C. & D.*, May 22, p. 83) without having to take the Major examination. The letter was referred to the Library Committee.

The Council received from Mr. A. H. Jenkin the gift of a copy of the "History of the London Pharmacists' Volunteers."

FINANCE COMMITTEE.

The financial statement is summarised as follows: Receipts since the last meeting, including a balance of 356*l.* 0*s.* 3*d.*, amounted to 4,285*l.* 8*s.* 8*d.*, made up as follows: Dividends, 86*l.* 19*s.* 1*d.*; penalties and costs, 143*l.* 9*s.* 5*d.*; "Journal" and publications, 14*l.* 13*s.* 9*d.*; registration-fees, 241*l.* 10*s.*; subscriptions, 993*l.* 6*s.*; examination-fees, 2,785*l.* 9*s.*; restoration-fees, 2*l.* 2*s.*; interest on deposit, 17*l.* 19*s.* 5*d.* After deducting payments, authorised at the last meeting, amounting to 2,856*l.* 13*s.*, there was a balance of 1,784*l.* 15*s.* 11*d.* The other balances were: Benevolent Fund (current account), 335*l.* 11*s.* 9*d.*, (donation account), 628*l.* 4*s.* 3*d.*; War Auxiliary Benevolent Fund, 886*l.* 19*s.* 11*d.*; Orphan Fund, 257*l.* 18*s.* 11*d.* Payments amounting to 3,326*l.* 1*s.* 9*d.* were authorised, and the action of the secretary in making payments amounting to 590*l.* 16*s.* 10*d.* was approved. The income of the Local Associations Executive for the period May 21 to June 16 was 431*l.* 18*s.* 6*d.*, and the expenditure 193*l.* 9*s.*

The report was adopted without discussion until the last recommendation was reached:

"That the membership subscription in future should be 1*l.* 11*s.* 6*d.*, and that the composition-fee for life membership should be 26*l.* 5*s.*"

The TREASURER (Mr. F. E. BILSON) recalled that at the May meeting of the Council the question of raising the subscription was brought up. The matter had been

further discussed at the meeting of the Finance Committee on the previous day. The reasons for the step would be obvious. Among them were the increase in the cost of posting the "Journal," the increased cost of printing and salaries, and, incidentally, the expenditure incurred at the last Council-meeting. Without making any specific reference to those who voted the examiners a fee 50 per cent. more than formerly, he wished to say that, when any considerable sum was involved, in his opinion the matter should go before the Finance Committee before being approved by the Council. He did not complain against any member, but simply on the ground that the Council's action was wrong in principle.

Mr. DEAKIN referred briefly to the cost of the "Journal," and the possibility of making a separate charge for it.

The TREASURER thought that the matter should be deferred till the end of the year, especially as it would involve an alteration to the by-laws. But it was necessary to take action with regard to the increased subscription, which also involved an alteration of the by-law, which would have to be read three times.

MISS BUCHANAN raised the question of the life membership, observing that the Society had some 927 life members, which would mean that there should be over 10,000*l.* for the life members' fund. ("No.") She suggested that a certain amount be set aside as a capital sum. Miss Buchanan recalled that in 1890 3,000*l.*, which up to that time had been invested in Consols for the fund, was taken by the then Council to pay for rebuilding at 15 and 16 Bloomsbury Square, and said she would like to know if any mortgage had been given on behalf of the Society. The Council was responsible for the money, and could not show it on both sides of the ledger. They would be faced with the rebuilding of the premises again in 1948, and 72,000*l.* would very likely be wanted. They were responsible for nearly 1,000 life members, and at present they had only about 4,000*l.*

Mr. ROWSELL expressed the opinion that the whole matter should be gone into, and suggested that the Finance Committee should submit a full report.

The PRESIDENT asked the Council to deal first with the subscription to the Society.

Mr. KEITH thought the question of the increased subscription should be deferred until the future of the "Journal" was considered. To give every member of the Society a free copy was a mistake. He knew of one family that received four copies, three of which were simply waste paper, and he urged that it would be far better to reduce the circulation to an effective one of 10,000.

Mr. HINES was against the matter being deferred. The question of the "Journal" was in a state of flux. The time was not opportune to discuss it, for they wanted to deal with it towards the end of the year, when they would know what result the new *régime* had achieved.

Mr. SKINNER said he had no objection to the subscription being raised, but he was concerned with the position of the "Journal," and the tremendous cost it was likely to reach. He could only support the increase in the subscription, however, if it were considered from the point of view of allocating a definite sum for the "Journal," which was running away with so much money. If they were to allocate a certain sum now that the paper was under direct control, the matter would be comparatively simple.

Mr. GUTHRIE said that it would complicate matters if they dealt too much with the question of the "Journal." With regard to the subscription to the Society, it was fairly evident that they were in funds for the next year or two, but the time had come when they must decide as to what the minimum subscription of the Society should be.

The TREASURER said that the Finance Committee considered that the raising of the subscription was necessary next year quite irrespective of the "Journal," and it was with a view of getting the by-law passed in time that the matter had been pushed forward on the previous day.

The discussion was continued in committee. On resuming in Council,

Mr. CAMPKIN said they had hardly decided as to whether the subscription should be increased to a guinea-and-a-half or two guineas, and they had hardly brought the Council to the point as to whether there should be an increase at all. The "Journal" was involved, and, whatever might be said, it was like King Charles's head—they could not keep it out of the memorial. When they considered the price of the "Journal," and the fact that it was presented to every member of the Society, they saw that the remainder of the subscription was very low indeed. He felt that the subject should be deferred for consideration at another meeting. He did not like resolutions of such a far-reaching character being sprung upon them. As the result of what had been done by those most interested in pharmacy, membership, even in country districts, had been doubled. An adjournment would enable them to feel the pulse of their members. They would have to make it quite clear that they could not continue the present subscription if they had to provide the "Journal" free at its enhanced cost.

Mr. HAGON suggested that the resolution should be left without any mention of the amount of the proposed increase; but the PRESIDENT pointed out that the Council had already passed a resolution on the lines suggested by Mr. Hagon.

Mr. WHITE said that the amount of the subscription should be increased to two guineas if necessary. Even if the discussion of the "Journal" was left over, the half-guinea extra would mean 4,000*l.* or 5,000*l.*

In reply to Miss Buchanan, the TREASURER stated that by a resolution on June 1 it was resolved to put 3,160*l.* to the credit of the life members' fund.

Mr. SKINNER remarked that the proposed increase of the subscription would hardly be sufficient, and suggested that, as an alteration of the by-laws would be necessary, they might consider the advisability of making the subscription two guineas.

The Committee's recommendation was carried.

LOCAL ASSOCIATIONS EXECUTIVE COMMITTEE.

The report of the Local Associations Executive Committee recommended, *inter alia*, that 5*l.* 5*s.* be sent towards the expenses incurred by the Aldershot special committee in fighting the proposed continuance of general trading by the Army and Navy Canteen Board.

The report was adopted.

WAR AUXILIARY BENEVOLENT FUND.

On the motion for the adoption of this report, Mr. GUTHRIE drew attention to the case of the ex-Service men in Scotland, whose applications had apparently been turned down.

Mr. PARRY said that the applications from Scotland were not in accordance with the Council's resolution at the last meeting. One of the characteristics seemed to be that they wanted more than they were entitled to. (Laughter.) The applications were quite irregular.

The report was adopted.

A QUESTION OF PROCEDURE.

On the announcement being made that there was no report from either the Ministry of Health Committee or the Benevolent Fund Committee, Mr. PARRY, on a point of order, suggested that the latter committee, at any rate, should present a report as a matter of course.

The SECRETARY explained that the report for the previous day's meeting would be submitted at the next Council-meeting. He reminded the Council that the committee had authority to pay certain sums, and only when larger amounts were involved was it necessary for the Council's confirmation to be obtained.

Mr. CAMPKIN asked how it was that the Council could not have a report the day after a meeting of the committee, as was the case formerly. Was it because of the enormous pressure of work, or was the staff unable to cope with it?

After further discussion, the SECRETARY said that a report could be given, but it was impossible to get it circulated on the day following a meeting. No payment

of the Fund was withheld by the present procedure, but if the Council wanted the old procedure they could have it.

Mr. PARRY said that it was more satisfactory for the committee to meet in the middle of the month, but experience showed that they could not get a proper attendance on those occasions.

Mr. WOLFF said that the net result of the difference was *nil*. It did not matter if the Council had to wait until the following month before hearing the amounts of the grants.

It was decided to adhere to the present procedure.

LIBRARY COMMITTEE.

The Library Committee recommended that the opening of the school session should take place on October 6 at 3 P.M. The Council agreed, and also adopted the committee's recommendation that permission be granted to the Civil Service Commission to use the Society's laboratory on or about August 18 for the purpose of conducting an examination for the appointment of naval dispensers.

A recommendation to accept seven "first examinations" enumerated in Circular No. 1,034 of the Board of Education, provided that the candidates have passed in "an English subject and in elementary mathematics," was also approved.

SECTION 4 (B) ADMISSIONS.

This report recommended the registration of certain applicants under Section 4 (*b*) of the Poisons and Pharmacy Act, 1908.

Mr. GUTHRIE moved the adoption of the recommendation, and Mr. DEAKIN seconded it.

Mr. WOLFF proposed as an amendment that consideration of the matter be postponed, as the applicants had not produced evidence of sufficient skill and knowledge.

Mr. HINES formally seconded. Five voted for the amendment, and fourteen against.

The resolution was then put, and a ballot was demanded. The voting was again fourteen to five, those in the minority being Messrs. Campkin, Hines, Keith, Skinner, and Wolff. The decided tone in which some of the members of the Council answered to their names caused laughter.

The following is the list of candidates accepted :

Baverstock, Willie Eaves	Leigh, Montague Charles
Broughton, James	Mann, Louisa Marguerite
Dringle, Sampson Darnell	Oscroft, Dorothy Isabel
Dunnill, William Clifford	Peerless, Herbert Ernest
Etheridge, Annie	Spier, Edward Jenner
Franklin, Edward Seymour	Stone, Emma Elizabeth
Harrison, Lucy Ruth	Williams, James Thomas
Hickman, John	Wood, Benjamin

This was all the public business.

The Kidwelly Poisoning Case.

AT Llanelly, on July 1, 2, and 3, the local magistrates heard the case in which Harold Greenwood, a Kidwelly solicitor, is charged on a coroner's warrant with the murder of his wife (*C. & D.*, June 19, p. 38). The opening statement of Mr. Seward Pearce, who appeared for the Director of Public Prosecutions, occupied the greater part of the first day's proceedings, and the evidence of the late Mrs. Greenwood's medical man followed. On July 2 the prosecution called James Bruce Macfie, manager to Dobbie & Co., seedsmen, Edinburgh, who produced an order received by his firm from Mr. Greenwood for seeds and Eureka weed-killer. That was received, he said, on or about February 21, 1919. The order was attended to except with regard to weed-killer, and in April his firm received from Mr. Greenwood the following letter : "I shall be obliged if you will let me have the 20*s*. worth of weed-killer I ordered some months ago." Witness then communicated with Tomlinson & Hayward, Ltd., manufacturing chemists, Lincoln. Charles Johnson, foreman in the employ of Tomlinson & Hayward, Ltd., spoke to consigning a small tin of weed-killer (powder), making 100 gallons, to Rumsey House, Kidwelly. Mr. William Edward Bell, chemist and druggist, Huddersfield, for some time before 1919 chemist to Messrs. Tomlinson & Hayward, said that the constituents of Eureka weed-killer were mainly arsenious oxide and caustic soda. About 60 per cent. of arsenious oxide was present. On July 3, Mr. John Webster and Dr. W. H. Willcox, of the Home Office, amplified the evidence that they had given in the coroner's court. Mr. Webster stated that he had analysed all the organs sent him, and had found arsenic present in each. The following were the amounts, which together made a total of 0.278 gr :

Stomach	0.009 gr.	Uterus	0.012 gr.
Small intestine ...	0.067 gr.	Rectum	0.006 gr.
Large intestine ...	0.008 gr.	Heart	0.004 gr.
Liver	0.131 gr.	Lungs	0.012 gr.
Spleen	0.006 gr.	Æsophagus ...	0.003 gr.
Kidneys	0.019 gr.	Brain	0.001 gr.

Arsenic was present in large quantities in a sample of Eureka weed-killer that he examined. The addition of 2 gr. of arsenic in the form of 3 or 4 gr. of this weed-killer to a wineglassful of port made practically no difference in the flavour of the port. Witness produced two small bottles, one containing port and the other port with 4 gr. of the weed-killer. The same quantity in tea made practically no difference to the taste of the tea. The colour in the case of the tea was slightly darker, but it would not be noticeable unless carefully compared with the original tea. There was a very slight darkening also in the case of port. Cross-examined, the witness said that the examination for poison might take two or even four or five weeks, because of the nature of the tests. He used the modified Marsh test, and checked the test in various ways. The witness produced some mirrors used in the test, and showed them to the Bench. He judged the weight of arsenic by the eye. That was to say, he compared his mirrors with a standard mirror which he knew contained a certain amount of arsenic. It was computation by resemblance. The mirror of the liver of the late Mrs. Greenwood was handed to Mr. Ludford, who remarked : "It is like the smoke on a chimney-glass." Dr. Willcox was then called. Having given similar evidence to that elicited by the coroner, Dr. Willcox added that the normal quantity of hydrochloric acid in the stomach was between 1 and 2 per cent., and the effect of the acid would be to destroy the colour of any weed-killer that entered the stomach. A lengthy cross-examination followed, one of its chief points being a comparison with the expert evidence for the Crown given in the Seddon case (*C. & D.*, I., 1912, p. 3). Mr. Ludford asked : Was it not fully understood that in the Seddon case it was of the utmost importance to the Crown that it should be proved that at least 2 gr. of arsenic was actually found in the body after death?—No, I do not agree. What is of vital importance to prove in all these cases is whether, taking the whole case together, the analytical evidence as to quantity shows that arsenic was the cause of death. I agree that if one has to form an opinion on the analytical results alone, the finding of 2 gr. is of great importance. Mr. Ludford put to the witness an extract from Taylor's "Medical Jurisprudence" with regard to the quantity of arsenic that should be found in a body before it could be shown beyond doubt that death was due to arsenical poisoning. Dr. Willcox said he agreed with the extract—which, however, was qualified—and he agreed with the qualification. The time referred to in the qualification was the time between the taking of the dose and the death and what happened within that time. In this case there were vomiting and diarrhœa, and that must be taken into consideration. Might there be arsenical poisoning without diarrhœa and vomiting?—There might be, but such cases are uncommon. In this the vomiting and purging were excessive. In some fatal cases the arsenic has been eliminated altogether. To be certain of death from arsenical poisoning, do you consider there ought to be a fatal dose in the body at the time of death?—Not necessarily. Can you give me a minimum?—It depends entirely on each case. Then you would not give a minimum?—No. The accused, who reserved his defence, was committed for trial.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

Increase of Rent (Restrictions) Bill.

The Increase of Rent and Mortgage Interest (Restrictions) Bill received the Royal Assent on July 2.

Criminal Law Amendment.

On July 2 the House of Commons appointed six members to join with the Committee of the House of Lords to consider the Criminal Law Amendment Bill, the Criminal Law Amendment (No. 2) Bill, and the Sexual Offences Bill.

Confiscated Soap.

Mr. Raper, on July 6, asked the Parliamentary Secretary to the Overseas Trade Department whether his attention has been drawn to the fact that fifty tons of Watson's Matchless Cleanser Soap, value 5,000*l.*, which was shipped in error by the British Rhineland Navigation and Transport Co. per s.s. *Jupiter* on April 21, after the shippers had given instructions not to ship on account of an import licence being required after April 18, have been confiscated by the German authorities in Cologne; whether he is aware that, despite repeated applications having been made to the authorities in Berlin and Cologne for the release of the soap, either to form part of a delivery for which a licence has been granted or for permission to send the soap back to England, the owner is now told that such permission cannot be given and that the soap is irrevocably confiscated; and whether he will request the German authorities to return this soap to its British owners.

The Parliamentary Secretary to the Board of Trade promised to look into the matter.

Finance Bill.

The Committee stage of the Finance Bill is being taken this week in the House of Commons. Clause 2, which continued the increased medicine duties, was agreed to without comment, as was Clause 3, dealing with increased duties on spirits.

Spirits in Hospitals.

When Clause 4, which refers to the use of spirits in medicinal preparations or for scientific purposes, was reached, Mr. Leonard Lyle moved an amendment which had for its object the extension of the principle of rebate to all spirits used in hospitals on prescription. Mr. Lyle said that during the war military hospitals obtained spirits free of duty, and he wished that principle continued in the case of voluntary hospitals. Mr. Kiley, who supported the amendment, said the position is that if the spirit is mixed with drugs and is bought from a drug dealer, then the duty is partially remitted; but if the spirit is mixed with water instead of with drugs, then the present duty has to be paid. It could not be the intention to penalise the hospitals or to induce them to mix the spirit with other substances to evade the duty. It is not a new principle, as it was conceded during the war to hospitals having military patients. The Financial Secretary of the Treasury (Mr. Baldwin) said the greatest possible care is required not to leave any holes by which evasion of the duty on wines and spirits is possible. By allowing the enormous difference between the pre-war duties on potable spirits a door would be opened which it might be difficult to close. Statutory grants are given by the Ministry of Health to certain hospitals in relief of the duty on alcohol used in connection with certain medicinal preparations, but it has always been ruled administratively that this relief is not to be given in the case of potable spirits. If such a concession were made, the Board of Customs would be entirely in the hands of the staffs of hospitals throughout the kingdom, and it would be a very great responsibility to throw on them that spirit was only administered in cases where a prescription was made for it. He said nothing of the possibility of that prescription being made more frequently. But the spirits would be administered in small quantities. A bottle would be bought relieved from the major part of the tax. It would be opened for the purpose of use, and there is very great difficulty in preserving the contents of a bottle that has once been opened.

Dr. Murray and Mr. Preston spoke in favour of the amendment, but on a division the motion was defeated.

Perfumery Spirit.

Mr. Kiley next moved that the following be added at the end of Clause 4:

Except that a similar reduction and allowance of duty shall apply in the case of spirits used in the manufacture of perfumery, essences, and fine chemicals, subject also to such Regulations as the Commissioner of Customs and Excise may prescribe.

The chairman said Clause 4 relates to spirits used in medicinal preparations or for scientific purposes; did the hon. member contend that cosmetics are either medicinal or scientific? Mr. Kiley replied that he referred to fine chemicals. The object in view in this proposal is to enable the people who manufacture these commodities to carry on their business, and to make profits from which the Chancellor of the Exchequer will derive an advantage. If, as he was informed, the duty is levied in the way now proposed, it will have the effect, to give one instance, of sending up a bottle of eau de Cologne, which in pre-war days sold, say, at half-a-crown, up to something like 8*s.* 6*d.* In consequence it will tremendously affect the demand and make it only obtainable by people who are very well-to-do. Those who have had experience of the sick-room know the value of eau de Cologne there, and its necessity. But the principal object is to ask the Chancellor to make such concession as will enable the businesses for which he was speaking to be carried on at something like their normal turnover. If the present proposals are allowed to go, it will bring down the output of such firms by a half or two-thirds. Mr. Chamberlain said he could not possibly accept this amendment. What are the articles for which the hon. member seeks exemption? Perfumery! But that clearly is a luxury. Essences! Which are used in the manufacture of beverages, and in flavouring confections. He really did not think these are cases at all comparable to those referred to a little while ago, the use of spirits in the manufacture of drugs. He had not directed his consideration to anything in the nature of alternative proposals; none have been brought forward. He could not, in regard to these articles, hold out any expectation that he was unable to fulfil. As regards the general burden on the businesses, that is common to all businesses nowadays.

Mr. Kiley, in withdrawing his amendment, said he wanted to emphasise the fact that a bottle of eau de Cologne would cost 8*s.* 6*d.* in place of 2*s.* 6*d.*, and diminished output and less employment would result.

When Clause 10, dealing with spirits used for generating mechanical power, was reached, an amendment in the definition of methylated spirit was introduced which excludes the use of "industrial spirits" for power purposes, but allows ordinary methylated spirit to be employed.

Gazette.

Bankruptcy Acts.

Adjudication.

Ingham, T., Pendre House, Holywell, Flint, chemical manufacturer.

Industrial Spirit in Belgium.—The Belgian Government is reported to be preparing fiscal measures which will bring about a material rise in the price of industrial alcohol. Grain spirit only is to be touched, but as alcohol from molasses is unobtainable this concession is more apparent than real. It is feared that the price will rise to 7fr. or 8fr. per litre, against 40 centimes before the war. The artificial-silk industry views this prospect with alarm, having regard particularly to the reported intention of the French Government to effect a reduction in the price of industrial spirit.

A Tri-Jubilee Celebration.

When Mr. Samuel Cleaver opened, in the year 1770, his soap-making business in the parish of St. Giles, London, he, like many another pioneer in commerce, "builded better than he knew"; and it is probable that he would have been genuinely surprised if anyone had told him that the tri-jubilee of the event would, in the reign of King George the Fifth, be the occasion of a sumptuous and dignified celebration. The Cleaver dynasty has continued unbroken from the foundation of the business to modern days. Mr. Samuel Cleaver was followed by his sons, William, Charles, and Joseph, who opened a new factory in Battersea. To them succeeded Mr. Frederick Samuel Cleaver, who removed the firm's headquarters to Red Lion Square and further augmented its prosperity; and in due course the management of affairs passed to his sons, Frederick John and William, by whom the concern was transfered to still larger premises in Red Lion Street. In 1905, on the death of Mr. F. J. Cleaver, the firm was converted into a limited liability company, the family being well represented in the directorate; and eventually the present spacious works at Twickenham were acquired.

Our ancestors of the eighteenth century were not as observant of the niceties of the toilet as are the present-day customers of F. S. Cleaver & Sons, Ltd., and their wants in this direction were few. To have catered successfully for the ever-growing demand for soaps, perfumes, creams, face-powders, and all the other adjuncts of the toilet, and, indeed, to have anticipated many of the developments in this class of trade, is an achievement of which to be proud; but Messrs. Cleaver—whose motto might well be *Habenda Ratio Pulchritudinis*—have, we learn, no intention of resting their claim for popular favour solely, nor even mainly, on tradition. They have confidence that an aggressive policy is justified by the quality of the products they send out. As a fact, their list of exhibition triumphs is an imposing one—bronze medals at New York, Paris, Chili, Adelaide, Paris, and Brussels, in the years 1853, 1867, 1875, 1887, 1889, and 1910 respectively; a silver medal at Melbourne in 1888; and gold medals at London in 1884, and at Auckland, New Zealand, in 1913-14. The list is really longer, but unfortunately many trophies were destroyed at the great fire at the Brussels Exhibition in 1910.

The tri-jubilee was celebrated on July 2, in the time-honoured English fashion, by a dinner held at the Connaught Rooms, London, W.C., the hosts being the directors of F. S. Cleaver & Sons, Ltd., and the directors of Lever Bros., Ltd. The reception which preceded the dinner included among its attractions an interesting selection of exhibits of the company's toilet specialities, and it was obvious from the fragrance of the atmosphere that some of the guests had been examining the perfumes with appreciation. It was appropriate that old tablets of Brown Windsor Soap and Honey Soap (the latter of which won the only medal awarded to a soap at the Great Exhibition of 1851) should occupy a place of honour. A small orchestra played before and during dinner, and on entering the dining-hall the guests, who numbered (including several ladies) upwards of a hundred, found the tables handsomely decorated with flowers. Mr. J. L. Ferguson, chairman of F. S. Cleaver & Sons, Ltd., presided, and was supported by Lord Leverhulme (chairman of Lever Bros., Ltd.), Lord Dewar (chairman of A. & F. Pears, Ltd.), Sir Herbert Morgan, K.B.E., Mr. C. Keith Denny, Mr. W. Easterbrook, Mr. W. E. Booth (A. & F. Pears, Ltd.), Mr. C. T. Kingzett (chairman of The "Sanitas" Co., Ltd.), Mr. A. E. Perkins, J.P., Mr. E. V. Salaman (A. & F. Pears, Ltd.), Mr. A. P. Miller, Mr. H. Morey Attwell, Mr. Charles Denny, Mr. A. T. Hollingsworth, Mr. John Laurie, Mr. H. J. Rushton, and Mr. Fred Smith. The dinner, with its choice wines, was on an exceptional scale of hospitality, and the verdict of an old diner-out, "The best dinner since 1914," was cordially endorsed by his neighbours. The programme of the proceedings will, no doubt, be preserved by all who were present on this historic occasion. Measuring twelve inches by eight, and bound with a fastening of gold cord, it has on its front cover a silk panel representing a fan, with four medallion portraits taken from paintings by Lancret (1770), Sir Thomas Lawrence (1820), Alfred Stephens (1870), and Drian (1920). The crest of the house of Cleaver is stamped at each corner, and the whole effect is one of admirable artistry and taste.

The after-dinner speeches, which were interspersed by songs of a high order of merit, had the supreme excellence of seeming very short—another way of saying that they were models of tact. After the loyal toast came that of "The Tri-Jubilee of F. S. Cleaver & Sons, Ltd.," proposed by Lord Leverhulme, whose impromptu toasts during dinner had already imparted vivacity to the proceedings. His lordship remarked that there were present directors of Vinolia, of Pears, of the Erasmic Co., and of Cleavers—a kind of League of Nations. (Laughter and applause.) Messrs. Cleaver had a great future in prospect, limited only by the extent of the globe. English toilet preparations had too long played the part of Cinderella in the world's markets. Business was the greatest game in life; and, although it was true that the game had not been invented in which both sides could win, in the game of business neither side need lose. In the course of an eloquent reply, Mr. C. Keith Denny, managing director, paid a high tribute to the staff, and thanked them for the excellence of their "team work." Further compliments were added by the chairman, who next proposed the toast of "The Management and Staff," adding that they were out to conquer the world. Admirable responses were made by Mr. C. R. Dyer for the home departments and Mr. A. P. Miller for the foreign departments; and the chaff of these colleagues at the expense of each other's domains was immensely relished by the gathering. At this point an incident not announced in the programme took place—the presentation, on behalf of the staff, of a pair of field-glasses to Mr. Denny. The presentation was made by Mr. J. Umpleby, who prefaced it with a speech that strikingly revealed the existence of the best traditional relations between staff and management. Mr. Denny feelingly acknowledged the gift, and again emphasised the alliance of interests prevailing in the house of Cleaver. The last toast, that of "Our Guests," was given in cordial terms by Mr. A. E. Perkins, and replied to by Lord Dewar and Mr. E. V. Salaman. Lord Dewar's apt and spontaneous witticisms kept his hearers in continuous merriment, and his bland reference to the willingness of the flesh and the weakness of the spirit raised the laughter to a roar. Mr. Salaman also responded in genial and humorous terms; and Sir Herbert Morgan proposed the health of the chairman. With the singing of the National Anthem, an event memorable in the annals of British commerce came to a brilliant conclusion.

Business Changes.

Reade Brothers & Co., Ltd., manufacturing and retail chemists, Wolverhampton, have closed their Victoria Street shop and have sold the premises.

Mr. W. W. Cowap, chemist and druggist, has purchased the business of Mr. C. S. Tyler, chemist and druggist, 3 Undercliff Parade, Felixstowe.

Mr. Lawrance Birkby, chemist and druggist, has taken over the business of Mr. C. L. Seely, chemist and druggist, 146 High Road, East Finchley, London, N. 2.

Mr. W. J. Pickford, manufacturers' agent, 21 Mincing Lane, London, E.C., has retired in favour of his sons, who will continue the business under the title of W. J. Pickford & Co.

Mr. Percy Robinson, chemist and druggist, trading as Robinson & Co., 13 Orford Hill, Norwich, has purchased the business of Gostling & Co., chemists and manufacturers of veterinary preparations, Diss. The business will be under the management of Mr. Stratton.

Births.

BRITTAIN.—At "Homestead," Old Southgate, on July 2, the wife of R. H. Brittain, M.C., M.P.S. (managing director of Prichard & Constance (Wholesale), Ltd., 469 Holloway Road, London, N. 7), of a son.

HIRST.—At 31 St. John's Avenue, Scarborough, on June 30, the wife of Harold M. Hirst, M.P.S., of a daughter.

SHAW.—At 49 Polefield Road, Prestwich, Manchester, on July 4, the wife of Granville Shaw, Ph.C., of a son.

Marriages.

BALCH—COTTON.—At the British Consulate, Paris, on June 28, Stanley Sadler Balch, M.P.S., 49 Rue Thiers, Boulogne-sur-Mer (Marchand & Leroy, Reims, Amiens, and Boulogne), to Leah Cotton, 157 Boulevard Haussmann, Paris.

Silver Wedding.

HAMPSHIRE—RIDGWAY.—At St. Mark's Church, Sheffield, on July 10, 1895, by the Ven. Archdeacon Favell, Frank R. Hampshire, M.P.S., to Edith, youngest daughter of Mr. John Ridgway, all of Sheffield. Present address, 304 Middlewood Road, Sheffield.

Deaths.

CROSSFIELD.—On June 25, suddenly, Mr. W. Crossfield, assistant for fifteen years with Mr. John Birkett, Ph.C., Morecambe, aged thirty-three.

FOSTER.—At 8 St. Martin's Terrace, Leeds, on July 3, suddenly, Mr. William Foster, of B. Foster & Son, manufacturing chemists, 85 Skinner Lane, aged seventy-one.

HAWORTH.—At the Royal Infirmary, Manchester, on June 18, of pleurisy and empyema, Mr. Henry Haworth, chemist and druggist, late of Stockport Road, Longsight, aged forty-four. Mr. Haworth, through a serious illness, was recently obliged to give up his business, in which he had been for nearly twenty years. Regaining his health, he a few months ago went to manage the branch pharmacy of Mr. Lord at Gorton Lane, Reddish. On June 11 he contracted a cold; on June 14 he was conveyed to the Royal Infirmary, where an operation was performed which was successful, but from which he failed to recover. Mr. Haworth was closely associated with the Manchester Pharmaceutical Association, and was a member of the Council of that body for some years. The funeral took place on June 23 at Wilton Grove, Reddish.

HEAP.—At his residence, Rook Hills, Bacup, on July 2, Alderman Lawrence Heap, chairman of Lawrence Heap & Co., Ltd., manufacturing chemists, Stacksteads, aged sixty-one. Alderman Heap was a member of the Bacup town council for sixteen years. He is survived by a daughter.

LAUGHLIN.—At Albion Terrace, Ramsey, Isle of Man, on June 28, Mr. Edwin Drewery Laughlin, chemist, Parliament Street, aged sixty. Mr. Laughlin succeeded his father in business some years ago. He had served on the local board of guardians and other public bodies, and was a prominent Freemason.

MORSON.—The funeral of the late Mr. Thomas Pierre Morson, whose death was recorded in our last issue (p. 77), took place at St. Margaret's Church, near Ware, on July 3. In addition to the members of the family and personal friends, the whole of the head office staff and employés of Thomas Morson & Son, Ltd., attended. Among others present were: Colonel Preston (Thomas Hodgkinson, Prestons & King), Mr. E. A. Webb (Evans Sons Lescher & Webb, Ltd.), Mr. Shaw (George Curling, Wyman & Co.), Mr. Murdoch (John Murdoch & Co.), Mr. Geoffrey Howard (Howards & Sons, Ltd.), Mr. Paul White (Alfred White & Sons), Mr. F. C. Devon (F. C. Devon & Co.), Dr. Hodgkinson, Mr. Webb (Whiffen & Sons, Ltd.), Major Hewitt, Mr. Saffery (Saffery, Sons & Skinner), Mr. Martineau (Martineau & Reid), Mr. W. Crawford (Burgoyne, Burbidges & Co., Ltd.), Mr. P. Blenkinsop (May & Baker, Ltd.), Mr. Lye (Thomas Tyrer & Co., Ltd.), Mr. Greenhough (Greenhough & Co.), Mr. Grosscurth (Grosscurth & Ludoldt), Mr. Birnie (J. F. McFarlan & Co.), Mr. George Redwood, and Mr. Robert Redwood. Among numerous beautiful wreaths were those from many departmental heads of Thomas Morson & Son, Ltd., as well as from the several departments. Others included those from Mr. Fredk. Boehm, Messrs Hugill and Overton (R. Sumner & Co., Ltd.), and Mr. Arthur Savory (Savory & Moore, Ltd.).

PAUL.—The death is announced from Calcutta of Mr. Bhut Nath Paul, of B. K. Paul & Co., wholesale druggists, aged fifty-four. Mr. Paul was the eldest son of the late Mr. B. K. Paul, who founded the firm in 1859. Mr. B. N. Paul became associated with the business at the age of sixteen, and from the outset exhibited uncommon ability. In course of time he succeeded his father as head of the firm, which at the time of his death had expanded its trade so as to occupy seven large buildings in Calcutta. Apart from his business aptitude, Mr. Paul had a magnetic personality which endeared him to a large circle of friends. There have been few parallels to his career in his own field, and Indian pharmacists esteemed him very highly. All the principal pharmacies in Calcutta were closed on May 22, as a token of respect.

MR. B. N. PAUL.

Personalities.

MR. C. F. HOTZ, managing director of the Chemical Works, Brugg, Switzerland, is at present on a visit to this country. He will be here about a week.

DR. J. S. FLETT, F.R.S., has been appointed Director of the Geological Survey and Museum. Dr. Flett succeeds Sir Aubrey Strahan, K.B.E., F.R.S., who retires this month, when Mr. G. W. Lamplugh, F.R.S., Assistant to the Director in England, also retires.

ALDERMAN R. WOOLLEY WALDEN, C.B.E., J.P., chemist and druggist, chairman of the Metropolitan Asylums Board hospitals committee, unveiled at Colindale Hospital, Hendon, on July 2, a tablet in memory of nurses Winchester, Rodwell, and Cruikshank, who were drowned while on war service.

THE following students in the pharmaceutical department of Manchester University have passed the Inter. Sci. examination of the University: Miss J. Duncan, Miss M. Ralphs, Mr. A. Burgess, Mr. G. G. Hammond. Mr. Burgess is the son of Mr. A. H. Burgess, chemist and druggist, Altrincham.

MISS MARGARET RIDEAL, daughter of Mr. F. Rideal, chemist and druggist, Glossop, and a student under Mr. James Grier, B.Sc., Ph.C., in the pharmaceutical department of Manchester University, has passed the Final examination for the degree of Bachelor of Science (in the second class) at the University.

MR. EDWARD C. DAVIES, chemist and druggist, youngest son of Mr. Thomas Davies (Manchester representative of Evans Sons Lescher & Webb, Ltd.), was awarded the degree of Bachelor of Science (first class) at the June examinations of Manchester University. Mr. Davies studied in the pharmaceutical department of the University.

MISS EVELYN A. GARNETT, daughter of Mr. Henry Garnett, F.C.S., Ph.C. (Flatters & Garnett, Ltd., microscope-slide manufacturers, Manchester), has obtained the degree of M.B., Ch.B. at Manchester University. Prior to taking up the study of medicine, Miss Garnett was for some time with Mr. John Wild, chemist and druggist, Oxford Road, Manchester.

Summer Flowers.

By George Roe.

ALTHOUGH many of the elegant flowers that brightened up the hedgerow and meadow have departed, floral ornaments are still plentiful everywhere. June rains, and intervals of warm sunshine, have covered the countryside with an unusual quantity of floral vegetation of great interest to lovers of Nature. Of the many vetches there are the common vetch or tare (*Vicia sativo*), often seen in the market-cart, and the tufted vetch (*Vicia cracca*), which can be seen tossing its showy tufts of purplish-blue-coloured flowers at the summit of the tangled, rough herbage of the hedge. The meadow vetchling (*Lathyrus pratensis*), the most common of wild peas, can be seen with its large yellow flowers borne on a tender stem high up amidst bracken and bush. Notice the fine tones of azure and amethyst of several of the borage tribe found in the hedgerows and gardens. Lungwort (*Pulmonario officinalis*) sounds familiar with its spotted leaves, pink buds, and bright blue flowers. Common borage (*Borogo officinolis*) has become a well-known and appreciated garden friend. It is interesting to notice how the single five-cleft corolla falls, leaving the calyx to protect the seed, Viper's bugloss (*Echium vulgore*) is a rough member of this order, but one of the most handsome of our wild flowers: tall and dignified, with its flower spike often a foot long. The comfrey (*Symphytum officinole*), with its numerous bristles and white, yellow, or pink flowers, must not be forgotten. It is a great drop from such tall and handsome specimens of the order to come down to the innocent-looking forget-me-not (*Myosotis polustris*), of which there are several varieties. Creeping scorpion grass (*M. repens*), rock scorpion grass (*M. alpestris*), and tufted scorpion grass (*M. cæpitosa*) are well worth picking out. Among the trefoils the bird's-foot trefoil (*Lotus corniculatus*) claims attention. It is papilionaceous, beautiful, and suitable for rockeries or gardens. The crane's-bills are at the height of their glory, peeping out in hedgerows and thick vegetation. The several kinds of this geranium tribe are mostly found in rich, moist pastures and mountainous districts. Yarrows are now much in evidence, with their peculiar bitter, pungent odour, near relatives of the camomiles and feverfews. The favourite British specimen is sneezewort (*Achillea ptormico*), with its white flowers and elegant leaves. The common yarrow is *Achillea millefolium*. In the clove tribe we have the interesting and ever-present *Lychnis dioica*, or white campion, diœcious, yet sometimes both stamens and pistils occur in the same flower. Look for the wild clove (*Dianthus caryophyllus*). This simple and charming flower is the original of all the "monster" carnations of the florists, and yet, on the score of beauty, it has not been beaten or excelled. *Stellaria holostea* and many others are still with us. Of the chickweeds the best is the field chickweed (*Cerastium orvense*), not found everywhere. Ragged robin or cuckoo flower (*Lychnis-flos-cuculi*), called cuckoo flower because it flowers when the cuckoo is in full song, has long, pointed stems and loosely panicled rose-coloured flowers. Broom (*Cytisus scoporius*), is a familiar representative leguminous plant. It is fertilised by insect agency, but the insect's visit is sometimes useless, because the stigma is occasionally not so ripe as the stamens in the same flower. The common furze is plentiful. Dwarf furze (*Ulex nanus*) is hairy, and the bracts are the same size as the flower stalks, which distinguishes it from the former variety. Needle greenwood or petty whin (*Genista anglica*) has pretty tufts of small yellow flowers. Among others common to the locality were the following:

Bee orchid, *Ophrys apifera*.
Blue knapweed, *Centaurea cyanus*.
Common gromwell, *Lithospermum officinalis*.
Common hound's-tongue, *Cynoglossum officinale*.
Common milkwort, *Polygala vulgaris*.
Dwarf mallow, *Malva rotundifolia*.
Great wild valerian, *Valeriana officinalis*.
Scarlet pimpernel, *Anagallis arvensis*.

Trade Notes.

SURGICAL DRESSINGS.—War surplus cottonwool, lint, boric lint, and bandages are offered in the advertisement of Mr. Chas. F. Thackray, Leeds.

FLORAL CACHOUS, heart-shaped, diamond-shaped, and round, are offered in a large variety of flavours by Potter & Clarke, Ltd., at the uniform price of 3*s*. 3*d*. per lb.

SILKODONO.—The Silks Toilet Co., Red Lion Street, Holborn, London, E.C. 1, ask us to remind our readers that the offer of special terms to chemists who order Silkodono hair-preparation, announced in last week's issue, remains open until July 31.

ARTHUR H. COX & CO., LTD., Brighton, inform us that their works will be closed from midday on July 30 to the morning of August 9 for the annual week's holiday and the August Bank Holiday. Chemists requiring delivery of special orders are asked to forward their instructions as early as possible.

IGLODINE SHOWCARDS.—The Iglodine Co., Ltd., Pilgrim Street, Newcastle-on-Tyne, have issued a series of showcards advertising Iglodine and its preparations. The cards (9½ in. by 6 in.) are neatly printed and explain in a few words the uses of the preparations to which they refer. Chemists can obtain the cards on sending a request to the company.

OPPENHEIMER'S SPECIALITIES.—Features of the exhibit of Oppenheimer, Son & Co., Ltd., 179 Queen Victoria Street, London, E.C. 4, at the recent meeting of the British Medical Association at Cambridge were Roboleine, Oscols, the Universal vaporiser, the aeriser, Stokes's nasal inhaler, mullplasts, mercurial creams, acetosal palatinoids and pulverettes and metramine (British urotropin). Particulars regarding each of these preparations were distributed to medical practitioners in the form of special pamphlets which gave full information as to the composition and the methods of prescribing the remedies.

SEMPROLAX.—The Wm. Browning Co., Ltd., Albert Works Albert Street, Park Street, London, N.W. 1, have sent us a sample of their new paraffin preparation, Semprolax. This is a clear amber jelly with a pleasant taste of malt and contains 80 per cent. of pure liquid paraffin of high viscosity. Semprolax exhibits the very striking effect of mixing readily with water to form an emulsion, this effect not being obtainable with preparations compounded with soft paraffin. Semprolax is supplied in 6-oz., 12-oz., and 24-oz. screw-capped jars, the retail protected prices being 2*s*. 3*d*., 3*s*. 9*d*., and 6*s*. 6*d*. The preparation is being vigorously introduced to the medical profession.

THIRST QUENCHERS.—W. B. Cartwright, Ltd., Rawdon, Leeds, send us samples of two lines which are very popular just now. These are Thirstlets and lemon-squash powder. The Thirstlets are effervescing tablets of various fruit flavours, packed in cylinders of about fourteen tablets. Each package sells at 2*d*., and 3 doz. are packed in a showy outer. Cartwright's lemon-squash powder (each packet selling at 3*d*.) is dissolved in water to form at once a pleasant lemon-flavoured non-effervescent beverage. The packets are attractively got up, and, as no additional sugar is needed, the beverage produced is an economical one. Show-bills are supplied with these two preparations.

Information Department.

INFORMATION WANTED.

L/17. Woodland balm
A/27. Cholestrol
H/27. Moselle or Movell soap cream
E/77. Anti-smoking capsules
W/87. Rich's smelling-salts
E/87. Radway's ready relief pills
B/77. Soleralus
W/77. Otto of Lyseol
M/87. Colonial tooth-brushes

INFORMATION SUPPLIED.

"Lofotel" cod-liver oil, E/234
London Virus, F/195
Luer syringes, A/246
Metagol, G/104
Nadco dyes, N/256
"Orilene" capsules, F/256
Thymolodyne cream, M/246
Waferleaf gelatine, G/246

Index Folio 962

Observations and Reflections.

By Xrayser II.

The Most Obvious Point

for criticism in the report of the Consultative Committee of the Medical Council is the absence of any provision for the payment of the new services. The report recognises that a great proportion of those who will benefit by the curative treatment provided will be able to pay for it directly, and they will no doubt be required to do so, but probably an equally large proportion will not be able, or will be able in part only. The preventive service will apply to all classes, and neither the well-to-do nor those who are not well-to-do can be expected to pay directly for a service which does not directly concern them, and which many of them will resent more or less actively. It is therefore clear that to work the scheme effectively, and even to set it going, a very large expenditure of public money will be needed—much more, we may be sure, than is generally realised. The Chancellor of the Exchequer will, in short, have as much to say in the matter as the Minister of Health himself. The prospect of the scheme being effectively worked in the near future is not roseate. Our Government, extravagant as it is in some directions, has proved itself niggardly in relation to real domestic amelioration, and one does not see where the money required is to come from while more grandiose schemes absorb so much of what an already oppressive taxation can raise. Yet it is certain that nothing is so essential to national progress or national defence as the health of the people, and it particularly behoves us who are professionally engaged in the promotion of the public health to prevent as far as we can the starvation of this new service in the interest of more showy or more selfish schemes of so-called national aggrandisement.

One of the Best Features

of the scheme outlined in this report is the increased co-operation of doctor with doctor and doctor with pharmacist. We hear a good deal of the mutual jealousies among chemists, but those existing among doctors are equally common and frequently more bitter, while their jealousy of the ancillary branches of nurses and chemists is notorious. I have rarely or never known a chemist resent the occasional transference of custom from himself to a neighbour, but I have known many a doctor refuse further attendance on a patient who has consulted a rival practitioner. Even the desire for a second opinion has to be expressed with great tact to avoid giving offence. I have myself lost the friendship of at least one doctor in this way. No doubt such cases are more frequent in country places than in towns, but they occur everywhere. It would be safe to prophesy that if the projected health centres ever come into being they will change all that. The more doctors see of each other's practice, the more they consult with each other and act in concert, the better both for themselves and for their patients. Each will be instructed and stimulated by contact with his fellows, and it is, as I said, one of the best features of this report that it both provides for this and relies upon individuals and not upon a State service for the realisation of its ideals.

The Objections

to the Dangerous Drugs Bill made by the Executive of the North British Branch are fairly exhaustive, but one principal point is not sufficiently emphasised, though more is said upon it than upon any other. To say that a medical prescription offers no better protection than that furnished by a qualified and responsible pharmacist is to put the fact very inadequately; as prescriptions are commonly used they offer much less protection than a chemist's poisons register, and such protection as they do offer is largely due to the fact that they pass through a chemist's hands. Even so, it is much easier to get a fatal dose of strychnine through misuse of a prescription than by direct application for it to a registered chemist, and this is equally true of some of the poisons aimed at in the Bill. The other grave objections to the Bill were fully and convincingly urged, and, referring again to your report, I see that one defect of the "prescription" safeguard was pointed out. Besides this, however, there are several others, and it is to be hoped that these would be stated in the communication to the Council.

Book-plates

should have some sort of appropriateness. A very beautiful one designed and executed in water colours for me by an artistic friend who now sleeps his last sleep somewhere in France is meant to symbolise my love of flowers and flower-lore. I regret that it cannot be reproduced. Perhaps I may be allowed to quote a legend I once wrote for a friend's plate :

> This plate makes but of ownership profession:
> Study alone of books gives true possession.

The book-plate of James Ransome Corder (a library interior with the figure of a man reaching down a book) has the suggestive inscription, "Ye wicked man borroweth, and payeth not again." This is in the British Museum Collection referred to in your article, where also there is a plate of E. Bickerton Evans's (possibly connected with the family we know so well in the trade), a coat of arms, with the motto *Libertas*. It has been said—a somewhat arbitrary saying—that every book-lover worthy of the name should have a book-plate. I have seen some very lovely plates by living or recently deceased artists—Anning Bell, Stacy Marks, Kate Greenaway, Walter Crane, C. W. Sherborn, and others. Anyone interested in the subject is recommended to get the special number of "The Studio" devoted to it, or to take the new "Book-plate Magazine" (The Morland Press, 190 Ebury Street, London, W.).

The Medicinal Uses of Amber

have recently been discussed in "Notes and Queries," and it is somewhat curious to find the belief in the curative virtue of amber necklaces, in cases of cold in the head, still seriously held. One correspondent reports such a cure in a case that had refused to yield to any other treatment, and attributes it to the action of amber so worn on the mucous membrane! Another goes only so far as to suggest that since amber had apparently a curative value as used internally by the old physicians, its use in necklaces had a rational basis "according to the views once in vogue," which is reasonable enough. The modern use of oleum succini both externally and internally is also mentioned. It has been denied that amber was known to the Greeks in very early times, the Greek *electron* having been used as a name both for it and for an amalgam of gold and silver, a species of gold ore washed down by the Pactolus; but amber has actually been found at Mycenæ, and the fact that the electron necklace mentioned in the Odyssey is said to have been a gift from Phœnicia means much. The Phœnicians are known to have introduced amber into the East, and Herodotus says it was brought from the River Eridanus in the extreme West of Europe. Eridanus is the name of more than one river, but it is probable that he refers either to the Vistula or to the Rhodaune, both of which flow into the Baltic near Dantzic. To get there the Phœnicians would doubtless sail westward round Europe. Amber has been used in medicine since the time of Hippocrates: formerly it was prescribed in powder in doses of from ʒj. to ℥j., and given in poached egg. The "volatile" salt obtained in the process of distilling the oil was another favourite form.

THE ACCRINGTON PHARMACISTS' ASSOCIATION has become affiliated to the Accrington Tradesmen's Association.

"UNSTABLE EQUILIBRIUM" was the expression it was intended to use last week in this page (twenty-seven lines from the bottom of the second column).

CINDERELLAS WANTED.—"Women in pharmacy," writes a correspondent, "have more of so-called trade-unionism about them than men. Some are very touchy about doing work such as dusting or washing measures."

"SANITAS"
DISINFECTANTS
FLUIDS, POWDERS, SOAPS & FUMIGATORS
Should be stocked by all Chemists.
THE "SANITAS" CO., Ltd., Limehouse, LONDON, E. 14

MEDICINAL CAPSULES
TO THE TRADE ONLY.
ACTUAL MAKER ESTABLISHED 25 YEARS.
Inquiries solicited.
D. W. BULL, 4 Churchill Road, HOMERTON, E.9.

ART OF DISPENSING. (9th Ed.) 8/-, by post 8/6.
VETERINARY COUNTER PRACTICE. 6/-, by post 6/6.
CHEMIST'S DICTIONARY OF MEDICAL TERMS. 3/6, by post 3/10

Send for a full-sized sample of
Pearlone
The Perfect Dental Cream.
This is a white paste with a most delightful flavour. Put up in collapsible "ribbon" tubes.
We want you to try it yourself at our expense.
Gives an excellent profit. It sells at 1/3 per tube.
Prices and Terms from
JEWSBURY & BROWN, Ardwick Green,
MANCHESTER.

TELEPHONE MAYFAIR 5015 (4 lines)
MEMO. NO. 16.
JOHN BELL & CROYDEN, LTD.
invite inquiries from friends requiring
SPECIALITY LAMPBLOWN GLASSWARE,
Medical and Scientific Glassware,
Technical Apparatus, etc., manufactured from design.
Inquiries addressed 50 WIGMORE ST., LONDON, W.1. receive prompt attention.
TELEGRAMS: CROYBELACO, WESDO, LONDON.

FRENCH AND ALL FOREIGN
Proprietary
MEDICINES
Wilcox, Jozeau & Co.
49 HAYMARKET, LONDON, S.W.
Export and other Buyers should apply for a List.
Foreign Prescriptions dispensed for Pharmacists.

THYMOL
British White, B.P.
H. RUBECK, DISTILLER OF ESSENTIAL OILS — Established 1856.
59 Mark Lane, London, E.C. 3.
Works - Rotherhithe, S.E. 16.

"TARTOLA" BRAND
(Regd. Trade Mark)
NIGROSINES
CRYSTALS
Water Soluble and Oil Spirit and Fat Soluble Qualities.
Manufactured by
PRESCOTT & CO.,
(A. PRESCOTT)
Holt Town Dye & Chemical Works, MANCHESTER
Phone: City 5950. Wires: "Tartola Manchester."

REYNOLDS & BRANSON, LTD.,
Grand Prix LEEDS. Turin 1911
PHARMACEUTICAL PREPARATIONS.
Tinctures, Ointments, Pills, Tablets, Suppositories. Standardised and Clinically Tested Galenicals, &c.
SURGICAL INSTRUMENTS.
X-Ray and Electro-Medical Apparatus, Dressings, &c.
AERATED BEVERAGES.
Sparkling Phosferrade, Puritzer, Dry Ginger Ale, &c.
SCIENTIFIC APPARATUS.
(Chemical, Physical and Photographic) Balances and Weights.
CHEMICALS FOR TECHNICAL AND ANALYTICAL PURPOSES.

BRITISH
ABSOLUTE ALCOHOL
Jas. Burrough Ltd. D.I. Cale Distillery, Hutton Rd. LAMBETH, S.E.11.

Editorial Articles.

Japanese Insect Flowers.

LIKE a great many other industries in Japan the cultivation of pyrethrum flowers and the manufacture of insect-powder greatly increased during the war. Prior to 1914 the chief sources of supply were Dalmatia, Montenegro, and to a slight extent Persia and some parts of south-eastern Europe. During the past four years, however, the world's supply has been produced in Japan. The first marked increase in production was in 1916, when the total

weight of dried flowers reached 4,368,850 lb., against 2,190,365 lb. in 1915. Before this period there was a gradual increase in production, but until the war stopped production in other countries this increase was not marked. The acreage under cultivation and the quantity of dried flowers produced in Japan during 1914 to 1919 were as follows:

	Acres	lb.
1914	2,760	2,135,700
1915	2,800	2,190,365
1916	6,920	4,368,850
1917	10,712	6,845 208
1918	10,474*	7,720,000
1919	3,809*	2,479,680

* Acreage for 1918 and 1919 is based upon the average production in 1915, 1916, and 1917, no actual statistics being available.

It will be seen from the above figures that the production for 1917 and 1918 was very large, but that there was a great falling off in 1919. The centre of the insect-flower production in Japan is the Okayama and Wakayama Kens (Prefectures) in the Kobe district, the exports being almost entirely shipped from the port of Kobe. The average size of Japanese farms is about 2½ acres, and the average field devoted to pyrethrum measures about one-third of an acre. These fields are uplands (as distinguished from paddy fields), and, owing to their small size and the limited capital on which the farmers work, are entirely prepared and crop-harvested by hand. The seed is usually sown broadcast, which of course necessitates very little cultivation, but it is also sometimes sown with drills and cultivated. The average production per acre is about 651 lb. The plant is a biennial, dying out at the end of the second year, and its production prohibits the use of land for other purposes during the same year. On the other hand, grasses raised for straw braids are produced in addition to a food crop, so that the return per acre planted in grasses is greater than that for pyrethrum flowers. For this reason, as well as because of the shortage of foodstuffs in Japan, many farmers formerly producing pyrethrum are turning to straw for braids. The following statistics show the exports of dried flowers and insect-powder from Japan for the six years from 1913 to 1918:

	Flowers lb.	Powder lb.
1913	350,225	210,012
1914	819,612	256,566
1915	2,058,090	309,664
1916	1,811,564	557,123
1917	3,330,672	671,218
1918	3,223,845	815,050

In 1913 the largest foreign purchaser of Japanese flowers was Great Britain, which took 184,930 lb., while China purchased the largest amount of insect-powder, 77,084 lb. During that year the exportation to the United States amounted to only 30,376 lb. of flowers and 16,027 lb. of powder. In 1918, however, the United States was by far the largest purchaser of flowers, exports to that country amounting to 2,721,993 lb., or 84 per cent. of the total exportation. China, however, is still the leading purchaser of insect-powders, exports to that country amounting to 206,682 lb. in 1918, while the export of powder to the United States amounted to but 120,949 lb., or about 14 per cent. of the total exportation. It is estimated that the decrease in acreage as a result of the failure to replant will cause a decrease in the 1920 production of dried flowers to approximately 1,411,000 lb., which is less than the production in 1913. It is probable that several years will elapse before Dalmatia and Montenegro will again resume cultivation on anything like a pre-war scale, as the industry is reviving but slowly.

Quinine Tests.

One of the useful researches instituted by the Army Medical Service during the war was a reinvestigation of the tests for quinine. This was desired in connection with an investigation on the excretion of quinine in the urine in malaria cases where the alkaloid is administered in large doses. Dr. M. Nierenstein, Bristol University, was in charge of the research. He first examined all the known tests for quinine, and found that trustworthy results were only obtained by Mayer-Tanret's reagent, Wagner's reagent, Herapath's test, and Robertson's test, and that the Herapath test is the best. This test, discovered in 1853 by Dr. Herapath, of the Bristol School of Medicine, is based on the low solubility of herapathite (artificial tourmaline) in alcohol, and the ease with which it forms crystals with a highly characteristic polarising effect, especially when examined microscopically with a Nichol's prism. The original test requires two solutions—(1) acetic acid 12 grams, alcohol 4 grams, and dilute sulphuric acid 6 drops; and (2) iodine 1 gram in alcohol 100 c.c. To carry out the test one drop of No. 1 and six drops of No. 2 are mixed. Baur and Reveillet's picric-acid method for the detection of quinine in the urine gave good approximate quantitative results, and is recommended for clinical routine examinations. The process consists in the precipitation of quinine in the urine by picric acid, and can only be used for urine free of other alkaloids and albumin. A set of ten test-tubes is prepared with normal urine containing progressive amounts of quinine, from 0.01 to 0.10 gram per litre. To each tube is added 5 c.c. of a 1-per-cent. solution of picric acid and the contents well shaken. This gives a set of standards with which the turbidity of the urines to be tested is compared. Five minutes' standing should be allowed before reading. It was found possible to detect quinine qualitatively in the urine in a few minutes after oral administration and seventy hours after administration had ceased. The research dealt also with exact quantitative methods for the estimation of quinine, preference being given to Barratt and York's modification of Giemsa and Schaumann's method, which gave an average error of —1.18 per cent. Dr. Nierenstein made several interesting observations during the course of his research. He found that the excretion of quinine showed marked individual and daily differences; that there is no appreciable difference in the excretion of the bi-hydrochloride of quinine if given orally, intramuscularly, intravenously, or in intramuscular and oral combination; that there is no marked difference in the excretion of the bi-hydrochloride, hydrochloride, hydrobromide, bi-hydrobromide, and sulphate if given orally; that less quinine was excreted when given orally as the lactate or euquinine, and that the metabolised quinine is in proportion to the dose given. It was also found that there is a tendency for the quinine to reach a concentration of 7 to 11 grains of quinine basis per litre of excreted urine. It was proved that the excreted quinine was unchanged quinine. Quitinine, a disintegration product of quinine, was found in the urine during the early stages of the quinine excretion, and a substance provisionally named hæmoquinic acid was found to be present in malarial urine after quinine treatment. This last-named substance was detected in "black water" urines in a much larger proportion than in malarial urine. It is suggested that hæmoquinic acid is 3-methoxy-quinoline-γ-keto-carboxylic acid. In this connection it is interesting to refer to a discussion on the use of quinine in blackwater fever which took place at the meeting of the British Medical Association at Cambridge last week.

Index Folio 965

Sir Alfred Garrod, F.R.S., stated that during the war there were 25,000 beds in Malta, where he was consulting physician. Almost all the cases of malaria from Salonika were treated at Malta. It was impossible to say how the men would have fared without quinine; every soldier was dosed with it. He did not consider that blackwater fever was due to quinine, but cases under his care had been made worse by quinine. Sir Leonard Rogers said he was satisfied as to the efficacy of quinine, though he considered that some of the salts of cinchonine ought to be tried. Dr. J. C. McWalter, who worked in the Malta and Egyptian hospitals during the war, said he had come to the conclusion that the medical profession were to blame for spreading the superstition that quinine could prevent or cure malaria. They had deceived the War Office into the belief that it is possible to send soldiers to malarial districts if they are duly dosed with quinine. The result was that 80 per cent. of the men who went to Salonika contracted malaria. As each case cost the taxpayer 1,000*l.* for treatment, there will be a big row some day when the public get hold of the facts. Dr. McWalter further said that the cost of malarial diseases incurred during the war was fifty millions a year, all due to the mid-Victorian superstition that doctors know a remedy for the disease. Some of the other doctors who joined in the discussion protested against the dethronement of quinine, but the consensus of opinion seemed to be that quinine has failed. It was mentioned that tartar emetic intravenously does some good in malignant cases. The dose was two grains and upwards. Curiously enough, the drug in this form causes no vomiting.

Disgruntled Germans.

REFERRING to the quotation in the *C. & D.*, May 1, p. 95, from the price-list of a Hamburg wholesale drug-house, the report of the German Chambers of Commerce in Switzerland takes exception to the quotation and to our remarks thereon. The report adds :

This marginal note should prove a warning and a stimulus to Germans at home, who are badly informed by certain newspapers, in spite of their enormous circulation. "The leading Hamburg wholesale drug-house" should really know that since the beginning of the war THE CHEMIST AND DRUGGIST has been one of the most malignant mouthpieces of our enemies. For this reason it is all the more beyond comprehension why the "leading house," by slandering its own people, should afford the English goading paper the very welcome material for renewed Pharasaical observations.

For our part, we are glad to have had the privilege in helping to unmask the pretensions of Germany.

Standard Sheep-dips.

THE Ministry of Agriculture and Fisheries has issued a circular letter to local authorities explaining the changes that have been made in the recently issued sheep-dipping Orders (*C. & D.*, July 3, p. 76). In regard to arsenical dips, the circular states : The Ministry has recently had under reconsideration the question of the percentage of total arsenic and soluble arsenic required to be present in a dipping-bath in order to be effective for scab, and it has been decided in future to approve such dips for the purpose of the Orders of the Minister if used in such proportions as to ensure that for a first dipping the dipping-bath would contain not less than 0.20 per cent. of total arsenic, including not less than 0.13 per cent. of arsenic in a dissolved condition, the arsenic in bothc ases being expressed in terms of its equivalent or arsenious oxide (As_2O_3). For the purposes of a second dipping within a period of not more than fourteen days after the first dipping the Minister is prepared to approve as efficient a dipping-bath containing not less than 0.10 per cent. of total arsenic, and not less than 0.07 per cent. of soluble arsenic—*i.e.*, approximately half the strength of the bath required for the first dipping.

Prescribing Proprietary Medicines.

THE annual meeting of the British Medical Association, which has just concluded at Cambridge, concerned itself with a variety of subjects. A discussion took place, for example, as to whether a medical man should use or recommend any remedy the composition of which he is not aware. The mover of the resolution explained that the word "composition" did not mean the exact chemical composition, but only "composition" in a broad sense. Another speaker said the principal ingredients of the remedy should be stated on the bottle, and disclosure to Government officials was also advocated by another doctor. Finally, it was agreed that a doctor should not use or recommend any remedy "the principal ingredients of which are not disclosed to the profession." Later on in the meeting it was agreed to instruct the Council to consider what steps could be taken to deal with "the undue advertising of drugs for self-medication," one doctor remarking that "aspirin is not harmless except in the hands of a properly qualified medical practitioner"—a very convenient theory for doctors who wish to keep the public ignorant.

Poisoning by Œnanthe Crocata.

DR. T. HARVEY THOMSON, Campbeltown, Argyll, gives in "The British Medical Journal" particulars of a fatal case of poisoning in a man of forty. Roots were found in the bedroom where the man died which were identified as *Œnanthe crocata* (the classical name, from *oinos*, wine, and *anthos*, a flower—owing to the vinous scent of the flowers), "hemlock water dropwort," "horsebane," and "five-finger root." It is also called "water hemlock," but this name is more accurately applied to an allied poisonous plant *Cicuta virosa*, or "cowbane." *Œnanthe crocata* is one of the most virulent of vegetable poisons, more deadly even than the more familiar *Conium maculatum*, or "spotted hemlock." It contains "œnanthotoxin," which causes convulsions by its action on the spinal medulla. The symptoms in this case were quite typical. The plant is very common along the banks of ditches and small streams in Argyll, where it is familiarly known as "hech-how."

Belgium and Foreign Exchanges.

IN THE CHEMIST AND DRUGGIST of May 29 (index folio 724) we referred to an anonymous contribution to the "Journal de Pharmacie de Belgique," dealing with the effect of adverse exchanges on the supply of pharmaceutical preparations to Belgian pharmacists. The distinctly revolutionary remedies suggested by the contributor have induced rejoinders from the pens of M. Pattou and Dr. Tramasure in the following issues of the Belgian journal. The former frankly designates the author's conclusions as "bolshevistic," and states that the remedy suggested—to refuse payment until the exchange is more favourable—is sheer commercial anarchy, and the very publication of such demagogic counsels in the professional organ cannot pass unchallenged without the risk of losing all credit and good reputation in the eyes of Belgium's foreign purveyors. Dr. Tramasure, in his contribution, deals exhaustively with the various remedies suggested, and partly adopted in some countries, to prevent a depreciation of the national currency, and makes the interesting statement that foreign sellers even buy their own goods back in the Belgian market, when the rate of exchange has further depreciated, to resell them in the same market with a profit which can amount to as much as 50 per cent.! He urges that only the necessary raw materials should be purchased abroad, but that Belgian pharmacy should cease to be dependent upon foreign supplies of such preparations as can easily be produced in Belgium—viz., tablets, extracts, pills, tinctures, etc.—and also foreign specialities, even as a temporary measure to tide over the present situation. However, on one point he is adamant; he insists that all payments abroad should be made only in Belgian francs, and not in foreign currency. "The collaboration of pharmacists in carrying out these proposals will assist in improving the rate of exchange, and consequently will contribute towards reducing the present high cost of living."

Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London. E.C. 4."

Report on the June Analytical Exercise.

THE powder distributed to students on June 8 consisted of equal parts by weight of ammonium aluminium sulphate (ammonium alum), zinc sulphate, and magnesium sulphate. The calculated composition of such a mixture is :

Zn	7.6
Al	2.0
Mg	3.3
NH_4	1.3
SO_4	38.2
H_2O	47.6
	100.0

The powder also contained, as impurities, recognisable traces of iron and of a chloride.

Samples of the powder were distributed to thirty-eight students, and eighteen reports were submitted for examination. No single correspondent succeeded in detecting all the main constituents. The failures were : Aluminium, 10; zinc, 1; magnesium, 7; ammonium, 4; sulphuric-acid radical, 1. Three students failed to report the evolution of water when the powder was heated in a dry tube.

This was an exercise for junior students, and, on the whole, it was a comparatively simple one. Still there were some stages in the analysis at which judicious treatment was called for in order that misleading results and inaccurate conclusions might be avoided.

The proportion of aluminium present being rather small, there was some risk of its presence being overlooked altogether, owing to the non-production of any conspicuous iron-group precipitate on the addition of excess of ammonia in the presence of ammonium chloride in sufficient quantity. Failures which occurred in consequence of this could have been avoided if the added excess of ammonia (which should, in any case, be very small in amount) had just been driven out by careful boiling, when the precipitate of aluminium hydroxide would have been distinctly visible even although small in quantity. Excess of ammonia tends to cause aluminium hydroxide to pass into colloidal solution, and for this reason it should be driven out as described.

On the other hand, failure to add ammonium chloride in sufficient quantity prior to adding ammonia caused the latter reagent to yield a fairly abundant white precipitate which was taken for an iron-group precipitate but actually consisted, to a considerable extent, of magnesium hydroxide, with only a little aluminium hydroxide. On examination, this precipitate did not appear to behave like aluminium hydroxide, since the greater part of it proved to be insoluble in sodium hydroxide, and its real nature —the phosphoric-acid radical not being present—usually remained a matter of conjecture only. The use of ammonium chloride in sufficient quantity wholly prevented the precipitation of magnesium at this stage, and those students who added enough of that reagent did not meet with the difficulty at all. Since a large proportion of our correspondents missed magnesium altogether, it seems probable that deficiency of ammonium chloride occurred in numerous instances, and that the greater part of the magnesium was frequently precipitated along with aluminium in the iron group.

The failure to detect magnesium may, however, have been due in some cases to insufficient time having been allowed for the precipitation of ammonium magnesium phosphate. In dilute solutions the precipitation may not become recognisable until a considerable time has elapsed after the addition of the sodium or ammonium phosphate as reagent. An obvious precaution is to keep the solution concentrated, but it is usually advantageous to evaporate to complete dryness after the addition of ammonium carbonate as barium-group reagent and filtration, if necessary, and to drive off ammonium salts by ignition; then to dissolve the residue in water and a few drops of hydrochloric acid, filter, and add ammonia in excess and ammonium phosphate. Unless very dilute, ammonium magnesium phosphate will visibly separate from a cold solution, so prepared and containing magnesium, on standing for a few minutes.

The quantity of chloride present as impurity was extremely small, the aqueous solution of the original powder yielding on acidification with dilute nitric acid and addition of silver nitrate, only a faint turbidity due to silver chloride. The various reports as to the presence of a chloride in quantity seem to indicate the continued occurrence of this as an impurity in the sodium carbonate employed in preparing the solution to be tested for acid radicals. Often referred to in this column, this possible source of error appears to be but infrequently recognised. At any rate, it is not sufficiently guarded against.

PRIZES.

The First Prize for the best analysis has been awarded to

JOHN R. GATHERUM, 25 Market Street, St. Andrews.

The Second Prize has been awarded to

GEORGE W. T. PIRIE, 259 Union Grove, Aberdeen.

First Prize.—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about five shillings may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

MARKS AWARDED FOR ANALYSES.

J. R. Gatherum (1st Prize)	84	Triticum	79
G. W. T. Pirie (2nd Prize)	83	Bright-eyes	76
McGinty	82	Gintario	76
Mytosis	82	Phenol	76
Tayside	82	Benzaldehyde	74
A. R.	81	Nemo	74
Boron	81	Combustible	72
Semloh	80	Eyelashes	63
		E. M.	35
		Dizo	24

TO CORRESPONDENTS.

G. W. T. PIRIE.—More details regarding the procedure followed in testing for acid radicals should have been given, in order to supply evidence of the absence of those not detected.

MCGINTY.—Your conjecture that the iron group precipitate contained magnesium hydroxide was, no doubt, well founded, and you may take it that ammonium chloride had not been added in sufficient quantity. See the general remarks.

MYTOSIS.—On heating the powder with concentrated sulphuric acid the strong acid fumes evolved must simply have consisted of some volatilised sulphuric acid. Read the general remarks respecting aluminium and magnesium and the iron group precipitation.

TAYSIDE.—It is not advisable to boil when testing for a phosphate with ammonium molybdate, unless you are sure that the solution of this reagent can be boiled alone, or with the addition of extra nitric acid, without yielding any precipitate of (pale yellow) molybdic anhydride. The latter is occasionally mistaken for the more brightly coloured phospho-molybdate precipitate. In face of the evidence of the probable presence of magnesium, you were too easily convinced that it was absent.

BORON.—Intumescence, due to the rapid driving out of water of crystallisation, is common to many salts, and is not a special characteristic of borates. It is, however, a noteworthy feature in the heating of borax.

SEMLOH.—Note that if a portion of the sodium carbonate extract acidified with nitric acid yields a precipitate with silver nitrate, a portion neutralised with the same acid is certain to yield a precipitate also. You report the former as yielding, but the latter as not yielding a precipitate. See the general remarks regarding the iron group difficulty.

TRITICUM.—Adding ammonia to a part of the original aqueous solution was not a satisfactory way to test for magnesium. The precipitate formed would contain aluminium, zinc, and magnesium hydroxides. Excess of ammonia would dissolve the zinc hydroxide only, while subsequent addition of ammonium chloride would dissolve the magnesium hydroxide. Aluminium hydroxide would still remain undissolved.

BRIGHT EYES.—Read the first sentence of the reply to "Mytosis."

GINTARIO.—You could scarcely have failed to detect the presence of ammonium if you had tested for it in the delicate manner which has been described repeatedly in this column.

PHENOL.—It is not apparent how you came to obtain evidence which led you to conclude that an organic acid radical was present. Any suggestion of charring when the powder was heated was conspicuously wanting.

NEMO.—Had an arsenite been present, you would have obtained a precipitate of arsenious sulphide on adding hydrogen sulphide to the original solution after adding hydrochloric acid. The precipitate which you supposed to be due to cerium was magnesium hydroxide. A precipitate formed by barium chloride in a neutral solution cannot be assumed to be due to a sulphate unless it proves to be insoluble in dilute hydrochloric or nitric acid.

COMBUSTIBLE.—Concentrated nitric or hydrochloric acid must not be used in examining the solubility relations of a precipitate supposed to be barium sulphate : dilute acid is alone admissible.

EYELASHES.—The precipitate produced in the original aqueous solution by potassium hydroxide did not dissolve completely in excess, since magnesium hydroxide is not dissolved by that reagent. Had you observed the incomplete solubility of that precipitate, you might have been led to suspect the presence of another metal besides zinc and aluminium.

E. M. AND DIZO.—The powder contained easily obtainable materials only, and you are advised to prepare mixtures in imitation of it and practise upon them until you are able to recognise the several constituents with certainty and to prove the absence of those you supposed to be present.

Wills.

MR. JAMES KENYON, Marthness, Whalley Road, Accrington, chemist and druggist, who died on May 14, left property of the value of 10,100*l.* 9*s.* 5*d.*, with net personalty 9,147*l.* 11*s.* 9*d.*

MR. JOSEPH SPENCER, chemist and dentist, 178 Bristol Road, Birmingham, who died on November 22, left estate of the gross value of 9,637*l.* 5*s.* 11*d.*, with net personalty 5,149*l.* 14*s.* 11*d.*

MR. WALTER HARTLE, Paradwys, Hill Terrace, Llandudno, retired chemist and druggist, who died on April 22, left property of the gross value of 2,601*l.* 13*s.* 8*d.*, with net personalty 729*l.* 18*s.* 8*d.*

MR. WILLIAM JOHN THOMPSON JACKSON, chemist and druggist, 2 Stanley Terrace, Preston, who died April 19, left estate of the gross value of 3,538*l.* 11*s.* 4*d.*, of which 2,243*l.* 8*s.* 4*d.* is net personalty.

MR. WATSON SMITH, F.C.S., F.I.C., 34 Upper Park Road, Haverstock Hill, London, N.W., who died on May 1, left property of the gross value of 693*l.* 13*s.* 11*d.*, with net personalty 581*l.* 4*s.* 1*d.*

MR. THOMAS EVANS, chemist, 91 Great Cheetham Street West, Higher Broughton, Salford, who died on April 14, left estate of the gross value of 4,972*l.* 4*s.* 9*d.*, with net personalty 1,612*l.* 15*s.* 1*d.* Probate of his will has been granted to his son, Mr. Frederick James Evans, pharmacist, St. Anne's-on-the-Sea, and the Rev. George Morgan, Ribchester, near Bury.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Birmingham.—At a meeting of the Pharmaceutical Committee at the Chamber of Commerce on June 21, the proposals of the Ministry of Health for an extension of the term of service of the existing Committee to December 31 were accepted. It was reported that the name of Mr. W. F. Roach, 646 Washwood Heath Road, had been added to the chemists' panel. Councillor J. Poole and Messrs. W. Shakespear and W. H. Whittock were appointed members of the Pharmaceutical Service Sub-Committee for the ensuing year.

Blackpool.—During the quarter ended March 31, 13,319 prescriptions, with an average total cost of 10.04*d.* (4.88*d.* for ingredients and 5.16*d.* dispensing-fee). The total cost was 556*l.* For the same period last year the total was 14,211, at a cost of 482*l.*, with an average ingredient price of 4.26*d.*, and dispensing cost 3.89*d.* There are now 17,709 panel patients at Blackpool, an increase of 800 on the quarter. At the meeting of the Insurance Committee on July 5 it was mentioned that there were twenty-nine chemists on the panel. The average cost of prescriptions for 1919-20 was 8.24*d.*, as against 7.75*d.* for the previous year.

Burnley.—During 1919 110,354 prescriptions were issued at a total cost of 3,717*l.*, or at 20.96*d.* per insured person.

Essex.—A meeting of the Essex Pharmaceutical Committee was held at the Palace Hotel, Southend-on-Sea, on July 1. There were present : Messrs. England (chairman), Bevan, Catto, Gaze, Hodgson, Marlar, Nicholls, and Rechey. The chairman extended hearty congratulations to Mr. Nicholls upon the occasion of his recent marriage. A letter of resignation was received from Mr. Seed, of Leyton, in consequence of his leaving the county, and it was decided to fill the vacancy by co-opting a member resident in the same locality. The secretary reported as to the arrangements which had been made with the Ministry of Pensions for dispensing Tropical Disease Clinic prescriptions. It was decided to comply with the suggestion of the Ministry of Health that the committee should remain in office until next December. The question of increased remuneration for Insurance dispensing was dealt with, and it was agreed that, in view of the steady increase in expenses and wages, this is absolutely necessary.

Surrey.—At the meeting of the Surrey Insurance Committee, on June 30 (*C. & D.*, July 3, p. 88), the following additional business took place : The Medical Benefit Sub-Committee reported that Mr. J. Parrott, of Richmond, had resigned from the chemists' panel, and that Mr. A. W. Poole, also of Richmond, had joined the panel. The Hours of Service Sub-Committee received a report from the secretary of the Pharmaceutical Committee and the clerk as to an interview with the chemists in East Sheen. East Sheen forms part of the area of the Barnes and Mortlake urban district, and the sub-committee, having regard to this and also the proximity of the district to the London border, decided not to accede to the application for the substitution of 7 P.M. for 7.30 on Mondays, Tuesdays, Thursdays, and Fridays, but adjourned consideration of the matter for a period of three months.

THE death is announced from Berlin by wireless of Herr Mermann Schueddekopf, the Director-General of the German Potash Syndicate, who, since 1905, had specialised in organising the transatlantic trade.

OFFERED AT AUCTION at Swansea, on July 6, the Swansea Chemical Works, with its buildings, plant, machinery, and sidings, extending over about twenty-nine acres, with seventy years' lease still to run, and with a ground rent of 167*l.*, was withdrawn at 20,000*l.*

Summer Outings.

Excursion to Matlock.

The Sheffield Pharmaceutical and Chemical Society held their annual excursion on July 1 to Matlock Bath, *viâ* Froggatt Edge and Haddon Hall. High tea was served at the Albion Hotel, after the various attractions of Matlock had been visited. The return journey was made by Chatsworth and Fox House. The arrangements were successfully carried out by the President, Mr. E. Preston, and Messrs. Johnson and Knowles.

Birmingham Chemists' Excursion.

The annual summer excursion of the Birmingham Pharmaceutical Association took place on June 30, when about fifty members and friends journeyed to Malvern by motor 'buses. Here they were joined by a number of members of the Worcestershire Association, including the President (Mr. W. Corbett). After partaking of tea at the Oak Tea Lounge the party climbed to the summit of the Worcestershire Beacon, by way of St. Ann's well. They were favoured by better weather than last year, the day being on the whole fine.

A Ucal Outin .

On July 1 the Wolverhampton branch of Ucal Federation held their annual outing to Bewdley. About half of the members formed a motor club and proceeded on their own machines with passengers, the remainder reaching Bewdley by train. The following sat down to tea as guests of the Vice-President and his wife, Mr. and Mrs. A. E. Marlow: Mr. W. R. Dunn (President) and Mrs. Dunn, Mr. and Miss Hagyard, Mr. and Mrs. M. R. Warner, Mr. and Mrs. E. H. Bowdler, Mr., Mrs., and Miss Coleman, Mr. L. Reade, Mr. H. Warner, Mr. and Mrs. C. M. Warner. Afterwards an enjoyable afternoon was spent by the Severn side.

Motor Outing.

The Halifax and District Chemists' Association arranged a motor outing to Grassington and Burnsall on July 1. The party numbered twenty-eight, but, unfortunately, the weather was far from pleasant. On the outward journey there was heavy rain, but the visitors were greeted by welcome sunshine at Grassington. High tea was served at the Red Lion Hotel, Burnsall, and several of the members took advantage of the opportunity to do a little botanising in this prolific district of plants and flowers. The pleasure of the return journey was marred by heavy rain, in consequence of which a call intended to be made at Bolton Abbey had to be abandoned. A short stay was, however, made at Ilkley.

A Royal Dee Excursion.

The Aberdeen Pharmaceutical Association held their annual summer outing on June 30. The party—some fifty in number—left Aberdeen in motor chars-à-bancs for Aboyne, the prettiest village on Deeside, some thirty miles up the river. The weather being ideal, the drive up the valley of the Royal Dee, with the magnificent views of the river and mountains, some of which are still snow-capped, was very greatly enjoyed. On arrival at Aboyne, the company was photographed by Mr. Wm. Reid. An adjournment was then made to the Huntly Arms Hotel, where high tea was served, under the chairmanship of President Hay. The company broke up into small parties, visiting the interesting spots in the district. On the return journey Aberdeen was reached at 10.30 P.M.

A Devonshire Outing.

The male staff of the Exeter house of Evans, Gadd & Co., Ltd., had an enjoyable outing on July 3. The party, starting at 8.30 A.M. in pair-horsed brakes, travelled through some of the most delightful of Devonshire lanes to Moretonhampstead, where a halt was made for lunch, and then on to Drewsteignton. From the latter place many made an excursion on foot to Fingle Bridge, returning to the Drewe Arms in time for a substantial tea. "Prosperity to the Company" was proposed by Mr. H. F. H. Jones, who, with the rest of the Staff Committee, was congratulated on the excellence of the arrangements made for the outing. A three-hours' drive *viâ* Tedburn St. Mary brought the day to a close, Exeter being reached at 10 P.M. The directors present were Mr. W. J. Wippell and Mr. F. Southerden.

"Alchemy" Lodge (3950) "Ladies' Day."

Pleasant weather favoured the organisers of this newly-formed Chemists' Lodge for their first Ladies' Day. The party, numbering nearly sixty, started from New Street Station, Birmingham, on June 30. Arriving at Defford, a steam launch conveyed them along the River Avon to Tewkesbury, where lunch was served, Wor. Bro. F. Barlow occupying the chair. Wor. Bro. A. W. Gerrard proposed the health of "The Ladies and Visiting Gentlemen." Mrs. Oldfield responded for the ladies and Wor. Bro. Gaddesden for the gentlemen. After lunch the company visited the ancient Abbey and other places of interest in the old town. After photographs had been taken the party proceeded by another steam launch up the River Severn to Upton-on-Severn, where tea was provided at the White Lion. The boat was again taken for Worcester, and from there the return journey was made by train.

Allenburys' Sports.

On July 3 the second annual sports meeting of the Allenburys (Ware) Amateur Athletic Association was held at Ware. The opportunity was taken of combining with this event the annual outing of the staff of the various branches. Entries were received from Bethnal Green, Plough Court, Vere Street, and Wigmore Street branches, the total number being 730. A special train was arranged to convey the members of the London staffs to Ware. The first race arranged was for 12 noon, and the twenty-three succeeding events were all carried through in excellent order, so that the last race was finished about 5.30. Representatives of Ware secured fifteen first prizes, including the half and one mile handicaps, both being won by H. R. Goodson; the long jump, C. H. Castle; the tug-of-war and the ladies' seventy-five yards, potato race, one-lap walk, and one-lap relay. Bethnal Green were successful in winning eight firsts, including the 220 yards handicap, C. Jones; the half-mile walk, W. J. Hayward; the high jump, W. J. Stokes; one-mile relay race, carrying with it a challenge cup presented by Mrs. Capel Hanbury. Wigmore Street carried off the 100 yards through the efforts of A. F. Deer. The Ware Town Band added to the enjoyment of the afternoon, and also played for dancing in the evening. Tea was served for 420 guests in a marquee. Mr. F. C. Hanbury was referee, Mr. R. J. Hanbury, Mr. F. W. Gamble, and Mr. J. Netherway took their share in the judging. Mrs. R. J. Hanbury presented the prizes at the conclusion of the racing, and was accorded a hearty ovation.

Sweden's Ban on Proprietaries.—Some inquiries from exporters regarding the regulations dealing with the sale of pharmaceutical specialities in Sweden afford an opportunity of referring to the drastic step taken entirely to suppress any secret medicines, and practically, it may be added, of any proprietary rights in a preparation. According to Swedish law, all pharmaceutical preparations placed on the market must bear on the label the exact composition of the ingredients, with the full designation and quantity of each. Further, it is forbidden to indicate on the label or in any accompanying printed matter any malady for which the preparation is claimed to have healing properties. The sale price of any such preparation may not exceed the total price of the ingredients, calculated according to the Swedish drug tariff; in other words, a pharmaceutical speciality is treated as if it were a medical man's prescription, and the sale price to the public is calculated on this basis.

Association Affairs.

Birmingham.—At a meeting of the Council of the Birmingham Pharmaceutical Association, held at the Chamber of Commerce on June 21, the President (Mr. H. O. Lloyd) was congratulated upon his election to the Council of the Pharmaceutical Society. Wax impressions of the medals designed for competition by students of the pharmacy class at the Birmingham Technical School were exhibited and approved. It is hoped that the medals for the current session, one silver and one bronze, to be awarded by the Association, will shortly be delivered. The principle of the dispensing of prescriptions for public bodies such as the police and the guardians by any chemist, and at Insurance dispensing rates, in preference to the practice of singling out individual chemists for the work, was approved, and the secretary was instructed to write to those concerned suggesting this course. The chairman reported that the authorities of the Technical School had been approached with a request to arrange for suitable classes for Part 1 of the Qualifying examination for apprentices and junior assistants, and that although this could not be done immediately, it was hoped shortly to have such classes arranged. Messrs. H. O. Lloyd, E. W. Mann, and F. Smith were appointed as delegates to the British Pharmaceutical Conference at Liverpool.

Devon.—The annual meeting of the Devon Pharmaceutical Association was held at the Rougemont Hotel, Exeter, on June 30, the President, Mr. P. F. Rowsell, J.P., in the chair. The President referred to the sad loss sustained by Mr. March, Torquay, in the death of his son, and moved a vote of sympathy which was carried in silence, the members standing. The chairman, in moving the adoption of the report of the Executive, remarked that it furnished abundant evidence of good work done by the Association. The treasurer was congratulated on his financial statement, which showed a balance in hand, and his resignation was accepted with regret. The collecting-box yielded 2*l.* 13*s.* for the Benevolent Fund of the Pharmaceutical Society. A discussion on the pricing scheme which had been tentatively adopted in the autumn resulted in the unanimous resolution to withdraw the pricing card from circulation, and to adopt the scheme set forth in the National Minimum Retail Price List, the consideration of certain matters of detail being left to the Executive. At the close of the meeting the members were entertained to tea by Evans, Gadd & Co., Ltd. The following officers were elected :—*President*, Mr. Rowsell; *Vice-President*, Mr. J. D. Turney; *Treasurer*, Mr. S. S. Brown; *Secretary*, Mr. F. Southerden; *Auditors*, Mr. J. Taylor and Mr. E. Lemmon. Messrs. F. E. Battershill, T. W. Dunsford, G. F. L. Fisher, D. Reid, and J. D. Turney were elected to the Executive as representatives of the North Devon, Torquay, East Devon, Exeter, and Plymouth District Associations respectively.

Essex.—A meeting of the Committee of the Essex County Association was held at Southend-on-Sea on July 1, the President, Mr. Nicholls, in the chair. The question of unremunerative proprietaries was discussed, and it was agreed to support any action taken to bring pressure to bear upon the proprietors of these articles. The question of the compilation of a complete record of services rendered by pharmacists during the war was considered, and the matter left in the hands of the secretary.

Hull.—A meeting of the Hull Pharmacists' Association was held on June 28, the President, Mr. Spilman, being in the chair. A large number of the chemists of Hull were present. After the transaction of the ordinary business and routine of the Association, the President called upon Mr. Hugo Wolff to address the meeting. Mr. Wolff, who was received with loud applause, said he had come with the intention of listening to others speak, instead of which he found that he was in for an address. In the circumstances he proposed to talk about *The Dangerous Drugs Bill*, and also his work on the Council. With regard to the first, there had been some splendid work put in by Sir Wm. Glyn-Jones over this Bill, and the net result was that instead of it superseding the Pharmacy Acts, it only strengthened them, both from the standpoint of public safety, and of unqualified handling of such drugs. The only way in which it was going to alter the existing state of affairs, so far as the chemist is concerned, is that there will be more stringent rules as to the retail sale of poisons, and a closer inspection than heretofore. Passing on to his work on the Council, Mr. Wolff remarked that somehow or other he had got the reputation of being a "stunt artist." He could not say why that should be so, because there had only been four things he had really gone for in pharmacy. The first was for better terms for Insurance dispensing, and he felt pleased that his efforts had met with so much success. The second was for "face value." He made no bones about patting himself on the back on this score, because undoubtedly every article that showed an adequate profit and was sold at face value meant one prop less for the type of store that built up a reputation for selling things so much cheaper than the ordinary chemist. Mr. Wolff here paid tribute to the fact that it was through the generosity and interest of Mr. Nathan (who was present) that he was able to go up and down the country speaking and working for this cause. In respect of the third of the things attempted, he had to acknowledge he had failed. He referred to the apothecaries' assistants by-law. The reason for failure was that he was up against a cleverer man than himself. His only consolation was that if Sir Wm. Glyn-Jones could beat him with such a rotten case as that, what a splendid fight he would be able to put up for pharmacy when we were up against the Bill for the admittance of the great unqualified, which was already prepared, and a mover and seconder already found. The fourth item was the one he was after at present—viz., the establishing of a Pharmaceutical Chamber of Commerce. With all due respect to the Local Associations Executive, it could not take the place of such a body as he proposed, because it happened to represent both masters and men. The same is true of the Pharmaceutical Society. Chemists need an organisation of masters, and masters only. It is impossible for the L.A.E. to deal with such wage demands as are being made at the present time. An organisation of masters who could consider the demands, and if necessary meet the men for a discussion, is the only solution. Mr. Wolff was accorded a hearty vote of thanks for his address.

London (S.E.).—The annual meeting of the South-East London Chemists' Association was held at Maitland House, Greenwich, on June 30, Mr. C. Happold, President, in the chair. A letter was read from Mr. F. W. Harris, Vice-President of the Association, saying that owing to his having sold his business and retired he did not wish his name to go forward for re-nomination. It was unanimously agreed that Mr. Harris be asked to reconsider his decision. The treasurer, Mr. W. Ralph, then submitted his report, which showed a balance in hand of 7*l.* 4*s.* 2*d.* The report was adopted. The secretary (Mr. J. Milner) next submitted his report, giving a *résumé* of the work done during the year. The President, in his address, urged the members present to try to influence those who failed to attend meetings to take a more active interest in the affairs of the Association, and he also urged that efforts should be made to induce a number of chemists in business in the area who are not members to join the Association. The *Committee* were then elected as follows: Messrs. W. H. Brooks, W. E. Callam, J. J. Clark, G. W. Cleave, G. F. Egg, H. S. Foster, H. J. Foulsham, J. Y. Fairweather, J. W. Green, W. Haigh, F. W. Harris, C. Happold, J. E. Lockyer, J. Milner, E. G. Price, W. Ralph, W. C. Sayers, C. H. Siddle, W. T. Tucker, A. J. Wing, and F. Lawrence. The district officers were all re-elected. A sum of 3*l.* 3*s.* was voted from the funds of the Association to the Pharmaceutical Benevolent Fund, and, in addition, 2*l.* 2*s.* was added by members present. Messrs. Wing, Milner, Foster, and Siddle were appointed to represent the Association on the London County Executive. The following officers were elected: *President*, Mr. C. H. Siddle;

Vice-Presidents, Messrs. F. W. Harris, W. C. Sayers, H. S. Foster; *Treasurer*, Mr. W. Ralph; *Secretary*, Mr. J. Milner; *Assistant Secretary*, Mr. G. W. Cleave; *Trade Secretary*, Mr. W. T. Tucker; *Financial Secretary*, Mr. Turner.

Plymouth.—A general meeting of the Plymouth Association of Pharmacists was held on June 24, Mr. J. D. Turney presiding. A vote of sympathy was passed to Mr. Frederick March, Torquay, on the loss of a son recently by accident. The President gave an account of his visit to the Ucal Federation Conference at Cheltenham, and spoke in enthusiastic terms of Ucal activities, stating that in view of the reported invasion of American multiple companies some such enterprise as Ucal was imperative if chemists as individual traders did not wish to be swamped. Mr. Ancliffe reported that over seventy circulars had been sent out in connection with the "Harrison War Memorial Fund." Any pharmacist, assistant, or apprentice in Plymouth, or who left Plymouth to take up war work, is invited to send details to him (Mr. Ancliffe) at 17 Trafalgar Place, Stoke, Devonport. The allowance which should be made in the price of a prescription when the patient supplies the container was discussed, but the subject will come up for consideration by the responsible sub-committee at an early date.

Portsmouth.—The annual meeting of the Association took place on July 7, Mr. J. W. Rhodes presiding. There was a full attendance, and no lack of interest was shown in the proceedings. Mr. Johnson, manager to Barrie Coffyn & Co., Ltd., and Mr. Glanville, assistant to Mr. T. O. Barlow, were elected members. The treasurer's and secretary's reports were adopted, and showed increased activities all round. The following were re-elected to various offices: *President*, Mr. J. W. Rhodes; *Vice-President*, Mr. A. B. Sparrow; *Treasurer*, Mr. J. E. Eyres; *Secretary*, Mr. W. R. Atterbury; with a *Committee*, comprising Messrs. Brewis, Bell, Bown, Darling, Egerton, Greenhalgh, McIntosh, and Postlethwaite. A warm welcome was accorded Mr. McIntosh on his return after being on active service since 1914, the recipient, in the course of his acknowledgment, bemoaning the miserable status of the pharmacist in the Army. The sum of 5*l*. 5*s*. was voted to the Benevolent and Orphan Funds, and the subscription to the Early Closing Association was doubled. At the close of the business the members were entertained to tea by the President.

Sheffield.—A meeting of the nomination committee of the Sheffield Pharmaceutical Students' Association was held on June 22, and a number of candidates were adopted. The election is to be held shortly.

Sussex (East).—A meeting of the Executive Committee of the East Sussex County Association of Pharmacists was held at 44 High Street, Lewes, on June 30, when considerable discussion was given to the Local Associations Executive circular-letter No. 80. After consideration, it was considered that the Association could not at present make out a case for pressing the claim for improved remuneration under the National Insurance Act, but would give support to Associations in less fortunate areas. The secretary (Mr. R. R. E. Perkins) reported on the present position with regard to Federation matters, and one or two points in connection with towns in the area in which Insurance dispensing was not undertaken by a pharmacist. It was decided to approach these chemists, in order to get them to undertake this work, having in view the extended service which pharmacists will probably be called upon to undertake, and also the fact of the very large number of insured patients in the area whose medicine is dispensed for them by their medical attendants.

East Anglia Federation.

A meeting of the East Anglia Federation of Pharmacists was held at the Palace Hotel, Southend-on-Sea, on July 1, the President, Mr. Percy Robinson (Norwich) in the chair. The President of the Pharmaceutical Society (Mr. E. T. Neathercoat), who was warmly received, spoke of the pleasure with which he had come to the meeting, as he had happy recollections of a previous visit to Southend, when the local Association was being started. He then dealt with various current matters. With reference to the Dangerous Drugs Bill, which was foremost in political pharmacy, he pointed out that by opportune representation the Society had been instrumental in getting the interests of pharmacists safeguarded, inasmuch as the regulations of the new Bill were in no way to displace those relating to the Pharmacy Act. Dealing with the case of the ex-Service men who were receiving free training and entrance for the Qualifying examination, he pointed out that during the next two years there is bound to be a large accession of qualified men to the ranks of pharmacy, proof of which was forthcoming by the fact that at the present time about 1,200 are sitting for the examination. It would be a big problem for the future to absorb these men as they become qualified, but in view of the fact that important developments are likely to take place in the near future under the new schemes of the Ministry of Health, it would probably be found that qualified men are in demand, and that new fields of activity may be opened up for them in the enlargement of the functions of the pharmacist. Referring to any extension of the present scheme of Insurance dispensing work, he said that at the moment it was impossible for anyone to say what would take place in this direction. Certain it was that the whole matter was receiving the attention of the Ministry of Health, and at any time fresh developments might occur. The chairman proposed a vote of thanks to Mr. Neathercoat for coming to the meeting and for his address. Questions were asked by Messrs. Holloway, Wiggin, Nicholls, Catto, and Carpenter, dealing with the various matters which had been referred to in Mr. Nethercoat's speech, to which he replied. Mr. Body (Southend) referred to his recent unsuccessful attempt to secure a seat on the Council, and, although disappointed at the result, he believed that he had received the wholehearted support of the members, and hoped that, by reciprocal working with other Federations, they might achieve better success next time. Mr. Smalley (Ipswich) read a paper dealing with the urgent necessity for unified charges in dispensing throughout the area, and also read a paper which had been contributed by Mr. Hamson, of Peterborough, in which the author stated that in their own locality a price list had been published with success. This matter evoked considerable discussion, those taking part including Messrs. Beeston, Body, Catto, Hiscox, Robinson, and Wiggin; and the following resolution was eventually passed:

> That this meeting of the East Anglia Federation greatly deplores the lack of uniformity in the prices charged for dispensing, and urges the Local Associations Executive to adopt as speedily as possible some official scale on the lines of that published by the "British and Colonial Pharmacist."

It was decided that the next meeting of the Federation should be held in London. A vote of thanks to the chairman concluded the meeting.

GERMAN REPARATION DYES.—The actual deliveries of German reparation dyes under the Peace Treaty up to the end of April were as under:

	Metric Tons	£
To France	... 837.5	590,300
To England	... 647.7	461,390
To Italy	... 294.6	182,000
To Belgium	... 329.0	174,000
To United States ...	... 115.9	139,000
Total	... 2,224.7	£1,546,690

Since April the total sent from the various works has been increased to about 2,600 tons, the aggregate value of which is stated to be 40 million gold marks (2,000,000*l*.). This is about one-third of the quantity which has to be delivered from stocks. It is added that deliveries have also begun under the Treaty requirement that 25 per cent. of the German annual output during the five years immediately after the war shall be sent to Entente countries at fair prices. The Germans seek, however, to have this arrangement modified, and negotiations are still proceeding.

The Drug Habit.

DR. ROBERT B. WILD, Dean of the Medical Faculty of the University of Manchester, delivered an address before the Manchester Medical Society which is printed in "The Lancet." The title is "Some Racial Problems, Social Evils, and Modern Crusades," and the address contained the following remarks regarding drug addictions :

Opium and morphia are the cause of even more serious results to the individual than alcohol, but the number affected in this country is too small to have any appreciable effect on the race. Indian hemp, either as hashisch, gunja, or churrus, has never taken root in England, but it is widely used in our Asiatic dependencies and the neighbouring countries, and produces effects which are in some respects intermediate between those of alcohol and opium, with a marked tendency to cause insanity.

Of the other narcotics which give rise to habit I will only mention chloral hydrate, veronal, and sulphonal. It is less commonly known that acetanilide, in the form of headache powders, may give rise to a habit, and that aspirin is becoming increasingly popular as a pick-me-up. What the consequences of habitual aspirin-taking may eventually be I do not know, as it is only of recent development, but I have seen cases of distinct craving for it. I want especially to call attention to this class of drugs, as the habit of taking them seems to be on the increase of late years, and the interesting point arises as to whether there is any connection between this increase and the decrease in the consumption of alcohol since 1900.

Of nerve stimulants cocaine is probably the worst drug addiction we have to deal with. It is a direct stimulant to the brain, and the sense of euphoria produced is more intense than that produced by any other drug, hence its great seductive power. I have seen many cases, and three past students of my own either committed suicide or had to be sent to an asylum as a result of cocaine. The oxy-purin bases, caffeine, theobromine, and theocine, are so closely allied to the food constituents and so universally taken that many people do not recognise that they are taking drugs at all, and, moreover, they are drugs of comparatively recent introduction to our race. It is also worth noting that allied purin compounds, such as xanthin, hypoxanthin, and guanin, are present in considerable quantity in meat extracts, which are also coming more into use as popular stimulants and beverages. Physiologically the effects of a cup of beef-tea or Bovril is almost identical in kind with the effects of a cup of tea or coffee or cocoa.

It is an interesting subject of speculation how mankind in so many parts of the world has discovered and used the oxy-purin alkaloids, as the plants containing them have no characteristic smell or taste which might betray their presence to uncivilised people, and yet we find them in use all over the tropical parts of the world where perhaps the exhaustion produced by excessive heat is best relieved by a nerve stimulant. These bases are pure cerebral stimulants, especially to the intellectual faculties; they remove the sense of fatigue, and often enable work to be done under adverse conditions. Unlike alcohol, they do not impair the quality of the work.

Are there any bad effects to set off against these benefits? There is the possibility that by allowing work to be continued when the feeling of fatigue is an indication that rest is urgently required may lead to a nervous breakdown. Many authorities also consider that the coincidence of a large increase of functional nervous diseases, especially neurasthenia, with the increased consumption of tea is more than a coincidence. Also a persistent high blood pressure often said to result in early arterio-sclerosis. Of the bad effects of excessive tea and coffee drinking we have all had experience, and I have seen several cases of acute poisoning with intense restlessness, garrulity, and absence of sleep, with a pulse of 160, followed by extreme exhaustion.

Another drug addiction is that of nicotine, next to caffeine the most universal of all, and which is also the subject of a crusade, which apparently makes little headway.

Probably neither caffeine nor nicotine is a serious handicap to the nation at present, for our competitive nations are equally affected by these addictions. If the use of these drugs enables more and better work to be done and diminishes the dependence of old age by an earlier wearing out of the arterial tissues the nation will gain at the cost of the individual, and in peace as in war the welfare of the individual should be sacrificed for the good of the race.

Modern Luminous Paints.

Abstract of an article by M. Victor Renneboog.

PHOSPHORESCENCE is a phenomenon observed since time immemorial, but science has not yet succeeded in defining or isolating the principles which produce the luminosity of the glow-worm, the sea waves, fish scales, or of certain processes of decay. On the other hand, chemistry has succeeded in preparing phototropic sulphides of the alkaline earth metals—*i.e.*, salts which may be said to absorb light when exposed to it, and to give it off in the dark. This is the case with the luminous Bolognese stones, consisting of sulphides of barium and strontium, and with Balmain's pictures, which created such a sensation in England at the exhibitions of 1883 and 1884, and which contained sulphides of calcium. However, with all these substances no phosphorescence is possible without the action of an outside agent—*e.g.*, irradiation, heat, ozone, or exposure to the ultra-violet rays of light, *x*-rays, or Becquerel rays.

The discovery of radium made it possible to manufacture paints possessing a permanent phosphorescence. The admixture of a minute trace of this element to phosphorescent zinc sulphide gives off the brightest light. However, the high price of radium makes the addition of even fractions of a milligram very expensive, and zinc sulphide containing radium, which renders it permanently luminous, is quoted at prices ranging from 16*s.* to 5*l.* for 1 gram. The processes adopted by manufacturers are closely guarded secrets, and in the several publications bearing on this subject widely divergent views are expressed regarding the various stages, degree of purity of raw materials employed, etc. Calcium sulphide is prepared from one or the other kind of calcium carbonate, oyster-shells being a favourite source. The carbonate is calcined with sulphur, with the addition of foreign substances, including bismuth, which, in small traces, seems essential. The author has obtained the best results with pure precipitated calcium carbonate, mixed with an excess over the theoretical amount of sublimed sulphur, sea-salt, and traces of bismuth; the mixture is calcined for an hour and a half in silica crucibles. Exposed all day to the sunlight, it remains luminous in the dark for four to five hours; the light emitted is first violet, then becomes almost green. This phenomenon can be repeated daily for years. The addition of traces of other metals effects a change in the shade of luminosity, thus zinc makes it appear greenish, manganese a yellowish-orange. The luminosity of calcium sulphide is activated by ultra-violet rays, but disappears under the action of the red rays of the spectrum. The product is sold at 33*s.* to 50*s.* a kilogram; it is readily incorporated in mucilages or varnishes, and is applied with a brush.

Phosphorescent zinc sulphide is the most interesting but the most difficult of luminous substances to produce. The author's process consists in using a pure precipitated zinc sulphide, to which are added volatile alkaline salts and traces of copper; in calcination the critical temperature to be reached is that at which fusion or sublimation occurs. It is a very stable compound, and retains its luminosity for the longest period. Taken out of a dark room, it has a yellow colour, which soon changes to green.

Calcium sulphide renders large surfaces luminous, but it must first be exposed to daylight; the luminosity of one square metre is visible at a distance of twenty metres. A greater practical application of these luminous substances will be possible when the price of radium permits of its incorporation.

FRENCH MEDICINAL-PLANT TRADE.—"Farmacia," a French pharmaceutical journal, gives the amounts of medicinal plants required by the home market and the quantities available for export. The total consumption is placed at 4,054,000 kilos., with a value of 6,533,800 fr., while a total of 18,779,000 kilos., valued at 26,877,750 fr., is available for export. The prices are based on those ruling in 1914.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration. See "The Chemist and Druggist Diary" 1920, p. 308.

(From "The Trade-marks Journal," April 14, 1920.)

"EULOMINT"; for toilet preparations (48). By Melvin Crawshaw, 1 Bolton Street, Ramsbottom, Lancs. 398,762.

"SAN-TOX"; for perfumery, etc. (48). By De Pree Chemical Co., 133 West Washington Street, Chicago, U.S.A. 399,186.

"REXEAN" on diamond-shaped device; for perfumery, etc. (48). By the Rexean Co., Ltd., 141 Lord Street, Southport. 400,553.

"TREVONA"; for perfumery, etc. (48). By C. R. Olver, 97 Upper Kennington Lane, Vauxhall, S.E. 11. 400,782.

(From "The Trade-marks Journal," April 21, 1920.)

"SUNBEAM"; for all goods (1) and (4). By Goodlass, Wall & Co., Ltd., 42 and 44 Seel Street, Liverpool. 396,135/6. (Associated.)

"FERRONITE"; for chemicals (1). By J. Sperni, 39 Johns Mews, Holborn, London, W.C. 1. 398,431. (Associated.)

"CHARYCE"; for chemicals (1). By C. C. Bryce, 43-54 Great Tower Street, London, E.C. 3. 400,886.

"GLOVERSOL"; for carbolic fluid soap (2). By Cooke & Glover, 98-100 St. Peter's Street, Radford, Nottingham. 396,175.

"JOHN PEEL VETERINARY EMBROCATION," with picture of huntsman and hounds; for a veterinary embrocation (2). By T. Bigg, Ltd., Church Street, Deptford, London, S.E. 8. 399,750. (Associated.)

"GERMOLENE"; for sterilising compounds and soil fumigants (2). "POTOMA"; for fertilisers (2). By Stonehouse Works Co., Houghton Street, West Bromwich. 400,126/7.

"VELPLEX"; for all goods (2 and 47). By the "Odds On" Specifics Co., Ltd., 36 Cock Lane, Snow Hill, London, E.C. 2. 400,419/20. (Associated.)

"ARCH BRAND PRO BONO PUBLICO," with device of bridge over water; for medicinal chemicals (3). By W. H. Thomas, 62 Park-Street, Treforest, Glam. 393,622.

"ARGOPLEX BRAND A PHARMACEUTICAL PRODUCT"; for a pharmaceutical product (3). By the Hoffmann-La Roche Chemical Works, Ltd., 7 and 8 Idol Lane, London, E.C. 3. 397,984.

"AMBRIODIN"; for medicinal chemicals (3). By the Centaur Chemical Co., Ltd., Bassishaw House, Basinghall Street, London, E.C. 2. 400,213.

"C A & S" on device, including leaf; for all goods (3). By C. Ash, Sons & Co., Ltd., 5-12 Broad Street, Golden Square, London, W. 1. 400,717. (Associated.)

"AIRCO" across device of globe; for photographic cameras (8). By the Aircraft Manufacturing Co., Ltd., 25 and 27 Old Queen Street, Westminster, S.W. 1. 398,894. (Associated.)

"REVINDIC"; for all goods (8). By Chadburn's (Ship) Telegraph Co., Ltd., 1 Cyprus Road, Bootle, Lancs. 399,274. (Associated.)

"SPHEREX" and "TOREX"; for optical and ophthalmic lenses (8). By Sherwood Optical Co., Ltd., 4 Charles Street, Hatton Garden, London, E.C. 1. 400,485/6.

"KEY-WAY"; for spectacle-frames, etc. (14). By Newbold & Bulford, 46 and 48 Goswell Road, London, E.C. 1. 397,296.

"DUBA"; for food substances (42). By Fabrique de Produits Chimiques Flora, Dubendorf, Switzerland. 392,265. (Associated.)

"CRYSTAL GEM"; for cordials (42). By Francis & Co., 9 and 10 Fenchurch Street, London, E.C. 3. 392,463. (Associated.)

"PURA" on globe carried by winged figure ("Pura" disclaimed); for food substances (42), perfumery, etc. (48), and for polishes (50). By Pura Products Co., Market Street, Kingswinford, Staffordshire. 392,666; 393,722/3. (Associated.)

"MEADOW SWEET" under picture of same; for goods (42). By S. H. Perry & Co., Ltd., 65 Victoria Street, Liverpool. 397,402. (Associated.)

"K C" separated by monogram "R Co" in circle ("K C" disclaimed); for food essences (43). By Rayner & Co., Ltd., Bourbon Works, North Road, London, N. 7. 400,765.

"B. M. & Co." under crescent device, "CRESCENT BRAND"; for sesquicarbonate of soda (47). By Brunner, Mond & Co., Ltd., Winnington, Northwich, Cheshire. 399,158/159. (Associated.)

"TRANSACTOR" across shield; for all goods (47 and 48). By Handelskompaniet Transactor Aktieselskab, Kongensgate 14, Christiania, Norway. 400,033; 399,664. (Associated.)

"ORION"; for goods (47) and for perfumery, etc. (48). By T. B. Rowe & Co., Ltd., Ferry Lane, Brentford, Middlesex. 400,451/2. (Associated.)

"HURRY" and "WEHURRY"; for goods (47). By Lever Brothers, Ltd., 22-34 Great Eastern Street, London, E.C. 2. 400,576/7. (Associated.)

"ARECO"; for perfumery, etc. (48). By Areco, Ltd., 11 Southampton Row, London, W.C. 1. 397,892.

"YAXA. (Il n'y a que ça)"; for perfumery, etc. (48). By the Chemists' Manufacturing Co., Ltd., 123-125 Newington Causeway, London, S.E. 1. 398,729.

"KHARMAH": for hair preparations (48). By A. Roebuck, 13 Marco Road, Hammersmith, W. 6. 399,163.

"BOKASIA"; for perfumery, etc. (48). By Constance M. Palmer, 13 Lisson House, Lisson Street, London, N.W. 1. 399,716.

"VELVEOLA" and "VELVEOLA SOUVERAINE": for perfumery, etc. (48). By F. F. Ingram Co., 52-56 Tenth Street, Detroit, U.S.A. 399,858/9. (Associated.)

"IVONIA"; for hair pomades (48). By H. E. Gordon, 1 Reginald Road, Deptford, S.E. 8. 399,861.

"SEBANCO"; for perfumery, etc. (48). By S. E. Bloor & Co., 17 Thomas Street, Shudehill, Manchester. 400,149.

Device of swan and powder puff in circle; for talcum powder (48). By A. & F. Pears, Ltd., 71-75 New Oxford Street, London, W.C. 1. 400,227.

Oblong label bearing device of circles: for goods (47) and for perfumery, etc. (48). By Taichi Nakayama Mizusaki-Cho, Minamiku, Osaka, Japan. 400,292/291. (Associated.)

"CAMILLE" in facsimile handwriting; for perfumery, etc. (48). By Jean Henry, 14 and 16 Buckingham Palace Road, London, S.W. 1. 400,357.

"FAMILY POMADE," with device of hen and chickens ("Family" disclaimed); for toilet pomade (48). By Jago & Jerome, Ltd., Progress Works, Nelson Street, Manchester. 400,747.

"MALANTI"; for perfumery, etc. (48). By Warrick Bros., Ltd, 6 Nile Street, City Road, London, N. 1. 400,984. (Associated.)

"TEGOCIL" and "VALOCIL"; for perfumery, etc (48). By Valley Perfumeries, Ltd., 19-25 Glen View Road, Hammerfield, Hemel Hempstead, Hertfordshire. 401,215/216.

"CORPOSANT" and device: for fire-extinguishing compounds (50). By Tyrer Brothers, 8-14 Liverpool Road, St. Helens, Lancs. 697,681.

(From "The Trade-marks Journal," April 28, 1920.)

"LECTONA"; for chemicals (1) and (2), medicinal chemicals (3), and for perfumery, etc. (48). By Lecithin, Ltd., 1 Queen Victoria Street, London, E.C. 4. 399,792/3/4/797. (Associated.)

"BEACON" under picture of lighthouse: for chemicals (1). By Bush, Beach & Gent, Inc., 80 Maiden Lane, New York, U.S.A. 394,800. (Associated.)

"DECALSOL"; for chemicals (1). By the Lewes Portland Cement and Lime Co., Ltd., South Street, Lewes. 400,880.

"TI-TOX"; for all goods (1). By P. Spence & Sons, Ltd., Holland Street, Miles Platting, Manchester. 400,932. (Associated.)

"RHAMNOLAN BRAND PHARMACEUTICAL PRODUCTS"; for chemicals (3). By Saccharin-Fabrik Aktiengesellschaft vormals Fahlberg, List & Co., Alt-Salbke 60-62, Magdeburg-Sudost, Germany. 383,380.

"SAN-TOX": for medicinal chemicals (3). By De Pree Chemical Co., Chamber of Commerce Building, Chicago, Ill., U.S.A. 397,158.

"SAR"; for medicinal chemicals (3). By the Hoffmann-La Roche Chemical Works, Ltd., 7 and 8 Idol Lane, London, E.C. 3. 397,989.

"VITALINE": for scalp tonics (3). By H. D. West, 40 Low Street, Keighley, Yorks. 398,436.

"SHIREEN"; for medicinal chemicals (3) and for perfumery, etc. (48). By A. H. Cox & Co., Ltd., 93 Lewes Road, Brighton. 399,825/6. (Associated.)

"NEPTUNE"; for sea sickness preventive tablets (3). By F. L. Lytée, 3 Cambridge Street, Edinburgh. 399,845.

"TRIMINET BRAND AN ANTITOXIN REMEDY FOR HYPODERMIC INTRAVENOUS OR INTERNAL USE": for a medicine (3). By Oppenheimer, Son & Co., Ltd., 179 Queen Victoria Street, London, E.C. 4. 400,368.

"I O U" monogram; for a medicine (3). By W. J. H. Griffiths, 64 Victoria Street, Westminster, S.W. 1. 400,411. (Associated.)

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C. 4, July 8

THE volume of business passing this week does not show any improvement and, looking broadly at the whole position, there is little or no encouragement for buyers to anticipate wants. The situation seems to be that, except here and there, articles will remain at about present values, and alterations will be in most cases in the direction of lower prices. Competition from Germany has brought down tartaric acid, also citric acid, lemon oil, and permanganate of potash. There are heavy stocks of calumba-root, pimento, and a number of seeds which will from weight of expenses force change of ownership. The daily Press continues to announce heavy reductions in the prices of camphor, menthol, and Japanese mint oil, and the differences between the figures mentioned and actual prices can be best appreciated by buyers. As anticipated in these columns last week, the prices of chloroform have been advanced owing to increased charges for raw material and labour. Chamomiles are firm, and lime-juice, lead products, and potassium chlorate incline to higher prices. A large number of articles, however, have declined in value, including acetanilide, oxalic acid, formaldehyde, senega, etc. A slight advance in the value of shellac is again announced.

Higher	Firmer	Easier	Lower
Chloroform	Fenugreek-seed Lead products Lime-juice Potass. chlorate Shellac Silver nitrate	Acetanilide Albumen Anise-seed (Sp.) Cadmium Chillies Heliotropin Lemongrass oil Linseed oil Mint oil (Jp.) Oxalic acid Potass. meta-bisulphite Sassafras oil Soda salicylate Tannic acid Tartaric acid	Anise oil, star Caraway-seed Carbolic acid Cassia oil Citric acid Clove oil Cocaine hyd. Coriander oil Creosote carb. Formaldehyde Lemon oil Menthol Pennyroyal oil (Sp.) Pepper Pimento Potass. sulpho-guaiacolate Rosemary oil Senega Soda benzoate Soy

ACETANILIDE is easier at 3*s.* 9*d.* to 4*s.* per lb., according to quantity.

ACETYLSALICYLIC ACID is unchanged at 5*s.* 6*d.* per lb. for spot.

ALBUMEN.—Prime Chinese egg is slightly easier, sales having taken place at 4*s.* per lb. To arrive is unchanged at 3*s.* 3*d.* c.i.f. July-August shipment.

ANISE is slow of sale, and quotations of Russian and Spanish are given at about 88*s.* per cwt., being easier for the latter.

ANTIMONY is steadier, with home refined at 60*l.* and upward. Far Eastern offers are less pressing at around 48*l.* c.i.f., while spot lots are quoted up to 52*l.* Crude is still nominal at about 40*l.* to 42*l.* Manufacturers evinced some little interest when prices were higher and with little to be got, whereas now fair parcels on the spot remain neglected. Exports from Japan early this year assumed some importance, against virtually none in the same period last year. France is now not a seller to this side, as comparatively better prices are obtainable locally.

ARSENIC.—There is a more limited supply of Cornish, and the market continues firm at 75*l.* a ton for best white powder delivered London. Grecian producers are sold well ahead, and offers in that direction have been suspended.

CADE OIL is unchanged at 2*s.* 2*d.* per lb. on spot.

CADMIUM is easier at 6*s.* 6*d.* per lb., the demand being quiet. Supplies are only moderate, and imports are not expected to increase owing to the restricted state of zinc smelting in America and in Germany.

CALUMBA.—The stock at the end of June stood at 17,778 bags, against 1,573 bags at the corresponding period last year. The deliveries during June numbered ninety-eight, and 948 bags were landed.

CAMPHOR (REFINED).—Japanese 2½-lb. slabs are in a little more demand. Fair quantity has changed hands at 6*s.* 7½*d.* to 6*s.* 9*d.* per lb. It is reported that orders at 6*s.* 6*d.* have not been filled.

CANARY-SEED is steady at 175*s.* per quarter for good quality, and about 140*s.* for ordinary. At auction 80 bags Spanish sold without reserve, with all faults, at 130*s.* to 131*s.*

CARAWAY-SEED is lower for Dutch at 40*s.* per cwt. for fair quality on the spot. At auction 93 bags stalky Morocco sold without reserve at 15*s.* to 16*s.*

CARBOLIC ACID is lower, ice crystals, 40° C., being offered in bulk packing at about 1*s.* 2*d.* per lb.

CASCARA SAGRADA.—The landings in London during June were *nil*, and the deliveries 9 tons. The stock at the end of the month was 87 tons, as against 51 tons in June 1919. Business has been done at 105*s.* per cwt. for good three-year-old bark. For two- to three-year-old, 100*s.* is being asked.

CHAMOMILES.—Good white old crop is scarce, and readily sells at 140*s.* per cwt. Slightly off-colour can be had at 130*s.* per cwt. The new crop will not be ready for over a month.

CHILLIES.—At auction thirty-two bales East African sold at 60*s.* to 110*s.* per cwt. for ordinary reddish and yellowish damaged.

CHLOROFORM.—The advance in price forecasted in last week's *C. & D.* materialised on July 5 when makers announced an increase of 2*d.* per lb. on chloroform B.P. (made from acetone), the new quotations being 4*s.* 2*d.* per lb. for 50 lb., with the usual reduction for quantities. On chloroform made from methylated alcohol 5*s.* 1*d.* is quoted, being an advance of 5*d.*; and made from pure ethyl alcohol 9*s.* per lb. is quoted, being an advance of 6*d.* The increases are stated to be due to the considerable rise in the price of raw materials, labour, and other charges.

CINCHONA.—An auction will be held on Wednesday, July 21, when 2,293 packages Java pharmaceutical bark, weighing about 124,032 kilos., will be offered.

CITRIC ACID continues to decline, and quantities can be had at 5*s.* 2*d.* per lb. on the spot.

CLOVES are quiet with spot sales of Zanzibar at 1*s.* 5*d.* to 1*s.* 6*d.* per lb., according to quantity. The London stock is 22,772 bales, compared with 18,407 bales in 1919 and 12,822 in 1918.

COCAINE.—Hydrochloride is slightly easier at 37*s.* per oz. in quantity for forward delivery.

COCA-LEAVES.—An auction will be held at Amsterdam on Wednesday, July 21, when 6,538 packages, weighing about 356,544 kilos., will be offered.

COPPER SULPHATE.—There is no change in the general situation, both import and export trades being dull. French, Spanish, and Italian consumers are apparently able to satisfy their needs from domestic sources. Italian sulphate makers bought recently a fair tonnage of raw metal here. Spot is unchanged at from 44*l.* to 46*l.* per ton.

CORIANDER-SEED is steady at 16*s.* 6*d.* per cwt. for sound Morocco and at 13*s.* for slightly wormy.

CREAM OF TARTAR shows no improvement, but, owing to high costs, nothing seems to be obtainable under 290*s.* per cwt., less discount.

CREOSOTE CARBONATE is lower, with spot offers at about 30*s.* per lb.

CUMIN-SEED is neglected, but quotations are unchanged at 38*s.* to 42*s.* 6*d.* per cwt. for ordinary to good sifted

Morocco. At auction 57 bags damaged sold at 30*s.* to 35*s.*

DILL-SEED is unchanged at 16*s.* per cwt. for fair East Indian.

EGG PRODUCTS are quiet. Chinese liquid hen-yolk, with 2 per cent. boric acid, has sold at 70*s.* per cwt. July-August shipment sold at 72*s.* 6*d.* c.i.f. Dried yolk is unchanged at 9*d.* per lb.

ERGOT.—Small supplies continue to filter through from Sweden. Sound Spanish has been sold on the spot at 34*s.* per lb., and for prompt shipment from Spain the price quoted is 21*s.*

FENNEL-SEED sells steadily at 34*s.* per cwt. for East Indian.

FENUGREEK-SEED.—Large quantities of Morocco have been sold at 9*s.* per cwt., but now 9*s.* 6*d.* is asked.

FORMALDEHYDE is lower, at about 340*s.* per cwt. in barrels for 40 per cent.

GUM ACACIA is steady, with usual Sudan sorts offered at 70*s.* to 72*s.* 6*d.* per cwt.

HEXAMINE is scarce on spot, with offers at from 16*s.* 9*d.* to 17*s.* per lb., according to quantity.

IPECACUANHA.—Only 29 packages were delivered from the warehouses at the end of June, consisting of 24 Matto Grosso and 5 East Indian. The landings comprised 186 Matto Grosso and 6 Cartagena. The total stocks on June 30 amounted to 418 packages, constituted as follows: Matto Grosso, 340; Minas, 8; Cartagena, 21; East Indian, 49.

LEAD PRODUCTS.—Prices have again fluctuated, both for white lead and lead oxides, and renewed firmness became manifest in the latter part of last week. There was then a sharp rally in the cost of raw material, and this impelled an upward revision of terms by corroders at the close of last week, when prices were fixed as follows: Dry white lead and white lead in oil were raised 20*s.* to 10*s.* a ton to 62*l.* 10*s.* and 71*l.* 15*s.* respectively f.o.b. for export, while red lead and litharge were put up 20*s.* a ton to 58*l.* 5*s.* for lots of under 5 tons, and 56*l.* for 5 tons and more, both for the home trade and export. These rates being still substantially below those current some months ago, the outlet may be sustained for an indefinite period, as trade needs on home and foreign account are still very considerable.

LIME-JUICE is in steady demand, good, pale West Indian being firmer at 3*s.* 9*d.*

LINSEED OIL.—The market has shown considerable irregularity, whether on account of speculative resales or freer forward offers. The seed, on the whole, has become easier partly under lower freight rates. The fact that ample supplies of seed are assured is obviously making crushers doubtful about anticipating their needs. The new North American crops are reported to be making good progress, and the acreage both in Canada and in the States is being increased. The same applies to the River Plate, whence this season's export surplus is placed at half a million tons. On Wednesday spot London closed at 73*l.* per ton and Hull at 70*l.*

MENTHOL is lower. Buying is still limited to small lots. Kobayashi-Suzuki is quoted at 28*s.* and Yazawa at 26*s.*

MYRRH.—The London stock at the end of June was 2,904 packages, compared with 2,336 packages in June 1919. The landings were 152, and the deliveries 61.

NUX VOMICA.—Inquiries have been made, but apparently there is nothing offered from India.

OPIUM.—The London spot market is easy, with Turkey druggists' quoted at 18*s.* per lb., but there appears to be little doing.

SMYRNA, June 12.—Our market was quiet this week, with sales of only four cases—viz., three current qualities at 1,035 piasters per oke, and one case Islamkeuy at 1,158 piasters (these prices are equivalent to 17*s.* 9*d.* and 21*s.* 6*d.* per lb. c.i.f. respectively). The exchange stands at 430 piasters per pound sterling for cheque and $0.91 for one Turkish pound. The arrivals are 1,715 cases, against 695 at same date last year.

SMYRNA, June 19.—The sales this week on our market amount to seventeen oases selected manufacturing qualities at $19 per lb. c.i.f. The exchange to-day is 420 piasters per pound sterling for cheque and $0.93 for one Turkish pound. The arrivals are 1,730 cases, against 695 at same date last year.

OXALIC ACID is easier for powder and crystals, spot offers being made at 2*s.* 9*d.* per lb.

PEPPER is lower, with spot sellers of Singapore at 6*d.* per lb. To arrive sales include August-October and September-November shipments at 6*d.* c.i.f. Aleppy sold at 6½*d.* spot, Lampong 6¾*d.*, and Tellicherry 7¼*d.* *White* pepper is unchanged on spot, with fair Muntok selling at 11½*d.* Sales to arrive include September-November 10⅞*d.* and Singapore 10⅜*d.* c.i.f.

PIMENTO is again lower, with spot sales at 4½*d.* per lb.

POTASH BROMIDE.—For crystals on the spot 2*s.* 11*d.* would be accepted.

POTASH CHLORATE.—Ordinary powder or crystals is firmer at 1*s.* 1*d.* There is a little of the chemically pure powder or "Santonin" crystals to be had at 1*s.* 2*d.*

POTASH METABISULPHITE is slightly easier, with spot sellers at 2*s.* 6*d.* to 3*s.* 3*d.* per lb., according to quantity.

POTASH PERMANGANATE.—Commercial quantity is offered on the spot at 4*s.* 5*d.* per lb. B.P. is unchanged at 4*s.* 9*d.* to 5*s.*, according to seller.

POTASH SALTS.—The supplies coming along are rather short of current needs. Advices in regard to the Alsatian output state that this may be doubled in the current year. Reports from Spain suggest that Government leases will be more freely granted to exploit the potash deposits in that country.

QUICKSILVER.—There is not much Italian on the market, so leading importers of Spanish are still holding for 21*l.* per bottle. Quotations otherwise range from 20*l.* to 20*l.* 10*s.* per bottle. The American market is firm after having been recently eased to some extent by arrivals of 565 bottles from Europe, including 300 bottles from Austria and the remainder from London. This was sold, however, prior to landing. Arrivals in New York from the West have been light, but offers of Mexican quicksilver continue to be made there.

QUININE seems to have become quiet again, with second-hand sulphate offering at from 4*s.* 6*d.* to 4*s.* 7½*d.* per oz.

RESIN has been quieter for some little time past and prices have eased. American grades range from 45*s.* upwards. The demand is restricted chiefly because of the lack of confidence in the stability of the market. The imports for last month at 43,401 cwt. were considerably less than for the same month last year, while the total for five months amounted to 395,539 cwt., compared with 653,381 cwt. for the corresponding months of last year. Resin being a by-product, its production volume depends chiefly on that of turpentine. Trading in America is distinctly dull, since the usual industrial needs so far have not expanded enough to make up for the disappearance of the abnormally heavy war-time demands. The seasonal demand from varnish-makers and others is considerably behind schedule time.

RHUBARB.—The landings in London in June numbered 255 chests, and the deliveries 35, leaving a stock at the end of the month of 783 chests, against 22 in June 1919. At the recent auction all on offer was bought in at 10*s.* to 12*s.* 6*d.* for medium to bold round and flat Shensi, and 6*s.* 3*d.* to 6*s.* 6*d.* for rough round horny High-dried. Flat High-dried was reserved at 11*s.*

SAFFRON, B.P., is unchanged at 62*s.* 6*d.* to 72*s.* per lb., as to quality.

SALICYLATES.—Salicylic acid is unchanged on the spot for B.P., which is offered at 3*s.* 3*d.* to 3*s.* 6*d.* per lb., as to quantity. The soda salt is easier for powder at 4*s.* 3*d.* to 4*s.* 6*d.* per lb., crystals remaining unchanged at 5*s.* per lb.

SARSAPARILLA.—The June deliveries were 85 bales and the landings 98, leaving a stock of 508 bales, against 1,259 bales on June 30, 1919.

SENEGA.—In view of the forthcoming new crop, a few bales of last year's can be had at the lower price of 10*s.* 6*d.* per lb.

SHELLAC.—The spot price closed firmer for fair TN at 680*s.* per cwt., and August delivery has been sold at 675*s.* to 695*s.* The exports during May from Calcutta amounted

to 26,770 packages, and in the first week of June 3,745 packages have been shipped.

SILVER NITRATE.—The prices quoted for crystals are firmer, based on the metal price of 52½*d.* per oz. (July 7), and are as follows: In quantities of 25 oz., 3*s.* 2½*d.* per oz.; 50 oz., 3*s.* 2*d.*; 100 oz., 3*s.* 1½*d.*; 250 oz., 3*s.* 1*d.*; 500 oz., 3*s.*

SODA BENZOATE is lower at 4*s.* per lb., and this quotation could be shaded for larger quantities in barrels.

SOY.—Chinese is not much in demand, and is lower on spot at 5*s.* per gallon for duty paid.

TANNIC ACID.—B.P. *Leviss* is easier at from 9*s.* to 9*s.* 6*d.* per lb. for spot.

TARTARIC ACID is unchanged on the spot at 3*s.* 7*d.* per lb., less usual discount. Continental suppliers are quoting 3*s.* 3*d.* to 3*s.* 4½*d.* c.i.f.

TURPENTINE.—Holders in America recently showed a disposition to realise stock. Some of the larger interests are stated to have had to accept business on a "sight draft on delivery" basis as a result of the uncertainties of the national transportation situation. This is regarded as a radical departure and a sign of the changing times in marketing methods in the naval store business. An American correspondent states that this is the first time in the history of the industry when a concession from the "sight draft on bill of lading" terms has been granted. Even the largest of the country's consumers were compelled to accept these latter terms by producers and jobbers alike. Now, with deliveries trailing shipments by as much as three months in some cases, it is impossible to enact the former drastic terms. The market has shown considerable irregularity, the forward position having again weakened materially following favourable American crop advices, and spot spirit has moved upwards. French spirit is more plentiful. The London stocks have been recently reduced, while imports from America have fallen off temporarily. Spot closed at 142*s.* per cwt.

ZINC OXIDE.—There is more interest in the market since the recent advance in the price of raw zinc. Leading makers still quote: White seal, 99.9 per cent. ZnO, 70*l.*; green seal, 99.8 per cent. 66*l.* 10*s.*; and red seal, 99.7 per cent., 63*l.* 10*s.* per ton.

Essential Oils Market.

PRICES generally appear still to be receding, and in the process of readjustment it is difficult to say where a halt will be called. Buyers at any rate seem to consider that the lowest level has yet to be reached. Consequently weak holders may be inclined to give way at prices which, it is said, may show, if not actual loss, very little profit. Lemongrass, Japanese mint, and sassafras oils are easier, and among those which have declined further are included anise-star, cassia, clove, coriander, and lemon oils. Neroli is at so-called prohibitive prices, and otto-of-rose, new crop, is also reported to have reached a high level at the source. With regard to synthetics, the difficulty of giving average ideas of value continues. Coumarin appears to be shaded, although nominally the price has changed but little except for forward delivery, which is firmer.

ANISE, STAR.—"Red Ship" brand is slow on spot, with sellers at 4*s.* per lb. July-September shipment has sold at 3*s.* 6*d.* c.i.f.

BERGAMOT.—No change appears to have been made this week, spot quotations remaining steady at 36*s.* to 38*s.* per lb. for 37-38 l.a. To arrive is given as 37*s.* to 39*s.* c.i.f.

CAMPHOR.—Japanese essential oil is quiet, with brown unchanged on spot at 145*s.* to 150*s.* per cwt. in cases and 160*s.* to 165*s.* in drums. White is steady at 185*s.* per cwt.

CARAWAY.—The improvement in the rate of exchange enables some of the Dutch holders to shade a little. Crude is quoted at 10*s.* to 10*s.* 3*d.* per lb., and for rectified 11*s.* to 11*s.* 6*d.* c.i.f. Spot prices are about 1*s.* higher.

CASSIA is weak, with sellers at 7*s.* 9*d.* to 8*s.* per lb. for 80 to 85 per cent. c.a.

CEDARWOOD is unchanged, with spot holders quoting 3*s.* 6*d.* to 3*s.* 9*d.* per lb.

CINNAMON.—Ceylon leaf is reported in fair demand, with spot sellers at 10½*d.* to 11*d.* per oz., according to quantity. For July shipment 10*d.* per oz. c.i.f. has been quoted.

CITRONELLA.—Ceylon is quiet and unchanged, with spot offers at 3*s.* 4*d.* to 3*s.* 7*d.* per lb. Java has sold this week at 5*s.* 6*d.*, and offers are made up to 5*s.* 9*d.* The total exports of citronella oil from Ceylon for the five months ended May 31, 1920, amounted to 469,438 lb., compared with 387,447 lb. at the corresponding period last year.

CLOVE.—English distillers have sold at 15*s.* per lb. The lower price evidently attracted business, for it is stated that considerable demands have been met during the week at this price. Clove leaf is offered on spot about 13*s.* 6*d.*

CORIANDER.—Fair arrivals have taken place, and the spot price is lower in the neighbourhood of 150*s.* per lb.

EUCALYPTUS.—In view of the higher quotations at the source, spot holders are inclined to say about 2*s.* 9*d.* per lb. But there is practically no demand, and a genuine inquiry would probably be met at less.

GINGERGRASS.—Quotations are given at 20*s.* to 20*s.* 6*d.* per lb., but there appears to be little available.

LEMON is very irregular. Good brands can be obtained on the spot at 6*s.* 9*d.* to 7*s.*, although quotations range a little higher. The c.i.f. price is round about 7*s.* 6*d.*

LEMONGRASS is weak, with spot sellers at 1*s.* per oz. for Cochin.

MANDARIN is lower on spot—about 55*s.* per lb.—some holders being anxious to clear stocks.

MINT.—Japanese dementholised is quiet and about 6*d.* per lb. cheaper, with sellers of Kobayashi-Suzuki at 9*s.* per lb. Yazawa is 8*s.* 6*d.* spot.

NEROLI.—Finest new-crop oil is said to be fetching 100*s.* per oz. at the source, although there are still sellers on spot at 90*s.* Italian of good quality is available at 25*s.* per oz.

ORANGE.—Calabrian, sweet, is quoted variously on spot at 40*s.* to 45*s.* per lb. and even higher; bitter at 28*s.* to 30*s.* West Indian has sold at 35*s.* per lb. for sweet this week, but higher prices have been mentioned.

PENNYROYAL is in plentiful supply on spot at 6*s.* 6*d.* per lb. for Spanish.

PEPPERMINT.—So-called "Wayne County" is offered about 42*s.* per lb. for redistilled. and H.G.H. at 66*s.* on the spot.

PINE.—A Swiss oil is offered on spot at about 8*s.* per lb.

ROSEMARY.—Spanish on spot is lower at 6*s.* 6*d.* to 5*s.* 9*d.* per lb.

SASSAFRAS.—A little genuine natural is to be had at 11*s.* 6*d.* on the spot.

Aromatic and Synthetic Chemicals.

COUMARIN.—Quotations show considerable irregularity, due, no doubt, to the presence of fairly good stocks. On spot 34*s.* to 35*s.* per lb. is given this week, with shading in some directions, but forward quotations are said to be higher. HELIOTROPIN is cheaper at 28*s.* to 30*s.* per lb. Buyers of IONONES are said to have anticipated a decline in prices, following the lower value of lemongrass oil; but it appears that manufacturers have been working on stocks bought at higher prices. Quotations vary from 100*s.* to 130*s.* METHYL ANTHRANILATE.—There have been fair arrivals, and about 35*s.* per lb. would be accepted. METHYL SALICYLATE is quoted at 4*s.* 9*d.* to 5*s.*, according to quantities.

German Drug and Chemical Markets.

The market report, dated July 1, of a leading Hamburg wholesale drug-house begins with the statement that business has further declined, as well as prices, and only the smallest quantities are being purchased. The fact that the so very necessary export trade has stopped is being acutely felt, particularly as this is due to German export prices precluding the possibility of competing with prices quoted abroad. In addition, the recently imposed new tax on exports will further paralyse foreign trade. It is true that the fall in prices cannot keep pace with the appreciation in the value of the mark during the past months. The decrease in sales, which is actually common to all trades and in all countries, has brought in its train declining prices, unwillingness to engage in new enterprises, and also an adverse effect on the labour market. The number of dismissals of workmen and of reduced programmes of work is on the increase, even in those undertakings which up to the present were kept occupied, and these are signs that the whole economic situation may shortly be exposed to severe tests. The results might be a renewed depreciation of the mark, and a repetition of the old vicious circle, as long as the improvement in the value of the German currency is due solely to foreign speculation, and not based on improved financial conditions in the country, increased exportation, and a satisfactory economic situation. The following quotations are in marks for 1 kilo.:

BENZALDEHYDE, almost free from chlorine, for foodstuffs, has further declined to m.130, as supplies from manufacturers are now forthcoming, and the demand has weakened.

BENZOIC ACID is quoted at m.60, which is cheap when compared with factory quotations.

BORAX.—Owing to the absence of export orders and the decrease in large transactions, prices have declined in spite of the fact that no new supplies have come in. Crystals are quoted m.10 and powder m.11.

CAFFEINE (PURE).—In consequence of depletion of stocks and absence of supplies from manufacturers, the price has not fallen below m.600, particularly as foreign buyers are interested in this article.

CASTOR OIL.—First pressing, in original containers, has dropped to m.28.

CITRIC ACID.—The price has dropped to m.120, but it is firm since manufacturers cannot supply, and no import licences are being granted for this article.

COUMARIN.—The price has been reduced to m.600, a quotation which is attractive to foreign buyers.

CREAM OF TARTAR, 99 to 100 per cent., has declined to m.40, although supplies are not plentiful.

HELIOTROPIN has declined to m.700, but is scarce.

JALAP.—Ordinary druggists' quality is offered at m.60.

LEMON OIL.—Demand is no longer as brisk, and the price has dropped to m.175.

LYCOPODIUM.—Genuine is offered at m.300.

MENTHOL, in spite of small local stocks, has declined to m.900, and recryst. to m.950.

MILK-SUGAR, after being unobtainable for a long time, can now be supplied at m.42.

OXALIC ACID is lower at m.40 for crystals.

PEPPERMINT OIL has declined slightly, and now fetches m.400, but supplies are fairly scarce.

PHENACETIN.—The difference between the price at which it is offered by dealers and the factory quotation is particularly wide, and it is advisable to make use of the cheap price at which it is obtainable consequent on compulsory unloading.

PHENOLPHTHALEIN is quoted by makers at m.185, while it is obtainable in the market for m.150.

POTASSIUM BROMIDE.—The very large stocks have been extensively cleared in consequence of large orders from abroad, at least as far as stocks resulting from compulsory sales are concerned. Nevertheless it is obtainable at m.35, which is below factory quotation.

POTASSIUM PERMANGANATE is one of the scarce articles, and is of interest owing to the demand from abroad; quoted at m.95.

POTASSIUM SULPHOGUAIACOLATE is m.325; stocks are low, and the price is likely to increase.

PYRAMIDON and PYRAMIDON SUBSTITUTE have declined enormously in price, but, in view of the low stocks, are likely to rise following any appreciable demand.

RESORCIN.—Ph.G.V. quality has declined to m.400 and technical to m.260, which are below factory quotations.

SALICYLIC ACID.—Dealers have reduced the price considerably, and it is obtainable at m.50, which is very much below manufacturers' quotations and should prove an incentive to buy.

SALOL has dropped to m.160.

SENEGA was in considerable demand at the lower quotation of m.320.

SENNA-LEAVES have dropped considerably in price, and are now quoted at m.23 gross for net.

SODIUM BENZOATE is obtainable at the very low price of m.55, which is below factory quotation.

SODIUM BROMIDE deserves attention at its present price of m.75, as it is one of the articles in large demand by foreign buyers.

SODIUM SALICYLATE is scarce at m.70.

SULPHONAL, in consequence of the decreased demand, has declined to m.500.

TARTARIC ACID.—Makers have reduced the price, following the general tendency, and it is now quoted at m.65 for granular and m.66 for powder. Foreign buyers are interested.

THEOBROMINE (PURE).—Offers of supplies are invited.

VANILLIN, 100 per cent. chemically pure, is sold daily, but supplies are strictly limited. No import licences are being granted for this article.

VERONAL has declined very considerably, and is now quoted at m.500.

West Java Cinchona.

The report of the West Java Kina Cultuur Maatschappij, of Amsterdam, states that the cinchona crop in 1919, instead of being shipped to Amsterdam as formerly, was forwarded to the Bandoeng Quinine Factory in so far as the company had to deliver to quinine manufacturers. In a dry condition the harvest amounted to 111,465 kilos., of which 105,000 kilos. was sent to the Bandoeng factory and the balance brought forward into 1920. The average content of sulphate of quinine was 7.16 per cent., compared with 6.68 per cent. in 1918, while the unit price averaged 10.80 cents.

Arrivals of Drugs, Chemicals, etc.

The following products have arrived at the ports named:

London

(June 14 to 21).

Chemical products, etc.:
Acetic acid, (Holl.) 400 demij. 8 cks., (Can.) 141 brls.
Antimony ore (Sp.), 808 pkgs.
Argol, (Sp.) 384 pkgs. 355 bgs., (Fr.) 144 bgs.
Arsenic (Fr.), 26 pkgs.
Barytes, (Belg.) 1,040 bgs. 800 brls., (Sp.) 320 brls.
Boric acid (It.), 298 pkgs.
Bromine (Germ.), 33 cs.
Calc. citr. (Syr.), 258 cks.
Calc. tart., (Gre.) 800 bgs., (Sp.) 525 bgs. 76 cks.
Citric acid, (It.) 200 cks., (Tky.) 32 brls.
Cream of tartar, (It.) 200 cks. 110 brls., (Sp.) 312 brls., (Fr.) 5 cks.
Fusel oil (Gre.), 27 brls.
Milk-sugar (Holl.), 100 cs.
Mercury, (It.) 60 bott. 500 cyl. 400 fl., (Sp.) 78 fl., (Tky.) 405 pkgs.
Paraldehyde (Amst.), 6 cs.
Potash, caustic, (Swe.) 45 cs., (Holl.) 221 drms.
Potash nitrate (Fr.), 200 bgs.
Potash oxalate (Holl.), 20 brls.
Quinine (Jv.), 1,366 cs.
Saltpetre, (Cal.) 497 bgs., (Fr.) 100 bgs.
Soda bisulph. (Holl.), 42 cks.
Soda oxalate (Belg.), 5 cks.
Stearic acid (Holl.), 127 bgs.
Sulphur (Sic.), 2,350 sks.
Sulphurous acid (Holl.), 30 cs.
Tartar, (It.) 329 cks. 310 brls., (Sp.) 476 bgs. 358 brls., (Fr.) 5 cks. 97 bgs.
Tartaric acid (It.), 50 cks. 248 brls.
Urea (Germ.), 20 cs.
Wine lees (Sp.), 757 bgs.
Zinc oxide (B'goon), 440 bgs.
Drugs, crude: leaves (Fr.), 50 bls.; roots (Trieste), 65 bls.; herbs (Germ.), 42 bls.
Cardamoms (E.I.), 86 cs.
Cinchona, (Jv.) 901 bls., (E.I.) 98 pkgs. 26 bgs.
Galls (E.I.), 2,028 bgs.
Gentian (Fr.), 17 bls.
Insect powder (Trieste), 6 cs.
Liquorice (Sic.), 50 cs.
Liquorice root (Sic.), 45 bls.
Nux vomica (E.I.), 1,370 bgs.
Olibanum (Tky.), 8 cs.
Opium (Tky.), 18 cs.
Orange peel (It.), 120 cs. 6 × ½ pps.
Orris (It.), 84 bls.
Sarsaparilla (W.I.), 15 bls.
Senna pods (Tinn.), 53 bls.; leaves, 60 bls.
Squill, (Sic.) 10 bls., (Trieste) 14 pkgs.
Turmeric (E.I.), 81 bgs.
Gums, resins, etc.: (E.I.) 324 pkgs.; copal, (Holl.) 94 pkgs., (Jv.) 360 pkgs.; damar (Jv.), 963 pkgs.; gambier (Jv.), 30 cs.; kauri (N.Z.), 2,299 pkgs.; lac: button (Cal.) 99 cs.; shell (Cal.), 1,065 cs.
Honey, (N.Z.) 388 cs., (W.I.) 30 brls. 270 cks.
Oils, essential:
Bergamot, (Sic.) 25 × ½ cs., (It.) 8 cs.
Cananga (Java), 3 drms.
Cassia (Ch.), 10 cs.
Cinnamon (Natal), 5 drms.
Citronella, (Cey.) 4 drms., (Jv.) 16 drms.
Eucalyptus (Aust.), 401 cs.
Geranium (Fr.), 18 cs.
Juniper, (Austria) 4 cs., (It.) 3 cs.
Lemon (It.), 9 cs. 20 × ¼ cs.
Orange, (W.I.) 6 cs., (It.) 4 cs.
Origanum (It.), 10 drms.
Palmarosa (E.I.), 1 pot.
Patchouli (Jv.), 1 drm.
Petitgrain (Parag.), 8 cs.
Rose (Tky.), 2 cs.
Rosemary (Fr.), 5 cs.
Shiu (Jp.), 50 cs.
Thyme (Gre.), 7 cs.
Turpentine, (Holl.) 50 brls., (Fr.) 100 brls. 866 pkgs., (Swe.) 10 drms.
Ylang-ylang (Fr.), 4 cs.
Oils, fixed: olive, (It.) 98 cs. 91 cks. 175 brls., (Belg.) 21 cs.; palm (Denm.), 1,640 brls.; soya (Holl.), 1,033 cs.; sulphur (It.), 300 brls.
Seeds: anise (Sp.), 190 bgs.; caraway (Holl.), 50 bgs.; cotton (W.I.), 2,644 bgs.; lin: (E.I.) 18,237 bgs., (Tky.) 2,102 bgs.; millet (It.), 100 sks.
Spices: ginger, (W.I.) 63 brls., (E.I.) 10 bls. 4 bgs.; pepper (E.I.), 1,512 bgs.; pimento (W.I.), 228 bgs.
Vanilla (Jv.), 21 cs.
Waxes: bees' (Holl.), 71 bgs.; paraffin (E.I.), 1,072 bgs.

Liverpool

(June 15 to 21).

Chemical products, etc.:
Acetic acid (N.Y.), 27 brls.
Barytes, (Germ.) 23 cks., (Sp.) 1,000 sks.
Bromide: soda (Swe.), 12 cs.
Calc. borate (Chile), 6,516 bgs.
Citric acid (Tky.), 45 brls.
Ferrum redact. (Swe.), 3 cs.
Formaldehyde (N.Y.), 159 brls.
Lactic acid (Amst.), 21 cks.
Milk-sugar (Germ.), 10 cs.
Sod. nitrate (Chile), 40,180 bgs.
Soda perborate (Holl.), 167 drms.
Tartar (Fr.), 144 bgs.
Drugs, crude, etc.: roots (Fr.), 65 bgs.; leaves (Fr.), 100 bls.
Aloes (Curacao), 168 cs.
Cinchona (S. Amer.), 15 sks.
Ergot (Swe.), 5 cs.
Henna (Alex.), 6 bls. 96 bgs.
Quillaia (Chile), 452 bls.
Gums, resins, etc.: copal, (Holl.) 147 bskts., (Belg.) 83 bskts. 131 bgs.; resin (U.S.), 500 brls.
Oils, essential: (Fr.) 40 cs.; turpentine (Swe.), 39 cks.
Oil, palm (W. Af.), 313 cks.
Seeds: castor (S. Amer.), 66 bgs.; cotton (E.I.), 13,306 bgs.; lin (E.I.), 1,231 bgs.; palm (W. Af.), 16,928 bgs.

Hull

(June 14 to 18).

Potash, caustic (Holl.), 117 drms.; seeds: ground-nuts (W. Af.), 1,732 tons; lin (R. Plate), 103,947 bgs.; palm, 12,556 bgs.; soda cyanide (Holl.), 5 cs.

Manchester

(May 31 to June 14).

Acetic acid (U.S.), 140 brls.; ambergris (Aust.), 1 cs.; ammon. nitr. (Norw.), 1,524 cks.; argol (Sic.), 32 cks.; bromine (U.S.), 8 cs.; formaldehyde (N.Y.), 71 brls.; formic acid (Holl.), 65 cbys.; lemon oil (Sic.), 3 cs. 1×½ ck.; orris (It.), 11 bls.; oxalic acid (Holl.), 16 cks.; paraldehyde (St. John), 9 cs.; phosphorus (Can.), 900 cs.; pot. pruss. (Fr.), 6 cks.; resin (U.S.), 50 brls.; soda nit., (Fr.) 25 cks., (Norw.) 942 cks.; squill (It.), 9 bls.; sulphur (Sic.), 1,544 bgs. 100 brls.; tartaric (It.), 40 brls.; tartar (Sic.), 8 cks.; turpentine (U.S.), 800 brls.; wax, paraffin (U.S.), 1,391 pkgs.

Southampton

(June 11).

Argol (Cape), 115 bgs.; buchu (Cape), 10 bls.; casein (Fr.), 10 bgs.

Indian Industries.

II.—Oil-splitting by Castor-seed Lipase.

A RECENT number of the "Journal of the Indian Institute of Science," Bangalore, South India, contained some interesting information on oil-splitting by castor-seed lipase. The authors of the papers are Dr. J. J. Sudborough, H. E. Watson, P. S. Uarma, and K. G. Laiwalla. From the experiments undertaken and described, it would appear that the fermentation should cost on the whole rather less than the "contact" process, and as the latter is stated to be the most economical method of working up oils and fats for glycerin and fatty acids, the fermentation process appears to be the cheapest for India. The production in India of a crude glycerin capable of readily yielding a dynamite glycerin on distillation attracted a good deal of notice during the course of the late war. The Munitions Board in India drew the attention of the Indian Institute of Science to the subject, and a number of experiments were made, which are described in the October number of the Journal, in order to determine whether it would not be possible to accomplish this object by means of the well-known castor-seed ferment. There are five methods described of producing glycerin from natural fixed oils and fats, and though there are defects which have yet to be overcome, the castor-seed ferment was found by the Institute experiments to possess more advantages than any other. The first of these is the use of simple plant, mainly wooden vats, which could be made in the country. The avoidance of the use of expensive chemicals which would have to be imported and are usually much more costly in India than in Europe or America. The fact that the fatty acids formed would find a ready sale for candle and soap making, especially as in the latter case the soap can be manufactured by using the comparatively cheap alkali (carbonate of soda), whereas in the ordinary process of soap manufacture the more expensive caustic soda is essential. This is sometimes made from the carbonate in the soap factory, but even this entails extra cost. The normal atmospheric temperature in many places in India is practically that required for rapid hydrolysis, so that no artificial heat is required. The drawbacks of the fermentation process are: (1) The comparatively large middle layer formed at the end of the operation, when glycerin liquor is separated from the fatty acids. This middle layer retains an appreciable portion of the glycerin liquor, the removal of which is difficult. (2) The impure nature of the crude glycerin obtained, largely due to the soluble proteins present in the castor-seeds. These are ultimately found in the crude glycerin, and render the production of dynamite glycerin by distillation a difficult operation. Attempts have been made to overcome these difficulties by using preparations made from the seeds in place of the seeds themselves. All the methods adopted have had as their object the removal of protein matter, other than the lipase ferment, from the seeds in order to reduce the middle layer to a minimum, and to obtain a crude glycerin as free as possible from protein matter. The only preparations which appear to have possibilities for employment on the commercial scale in India are the German, French, and Japanese processes, and the Institute carried out a number of experiments, using these three types of preparation, especially the French and German. The conclusion arrived at is that the French method due to Nicloux, or some modification of it, is the simplest to work. In all, something like 120 experiments were conducted by the Institute, and a sample of the distilled glycerin product was submitted to the Government Cordite Factory. Their report was to the effect that the sample submitted appeared to be quite suitable for nitration, but that larger quantities would be required before a completely reliable opinion could be expressed. The Indian Institute of Science deserves to be congratulated on the progress it has made in the short time since its formation.

Correspondence

Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

"Elixir Lactopept."

A firm of solicitors, writing on behalf of John Morgan Richards & Sons, Ltd., in regard to the doctor's prescription reproduced in the *C. & D.*, July 3, p. 96, claim that the use of "lactopept" is an infringement of the rights of their client in the word "lactopeptine." They point out further that Messrs. Armour's preparation is elixir lactated pepsin.

The Polish Company "Pharma"

SIR,—In reference to the notices, in the *C. & D.*, March 6 and June 5, in "Foreign News" concerning our wholesale house, we have the pleasure to inform you that our company was established in 1915 and actually works as a joint-stock company, with Polish marks 7,000,000 stock. After finishing our preparatory work we shall undertake also the manufacturing of chemicals and working of crude drugs, for which purpose we intend to raise the joint stock to m.15,000,000.

Yours truly,

Cracow, Poland. MAGISTER B. JAWORNICKI.

The Commerce of Cinchona and Quinine.

SIR,—With reference to the letter signed by Mr. W. Bredt (*C. & D.*, July 3, p. 94), it must be observed that Mr. Bredt's knowledge of the subject possibly cannot bear too close scrutiny when he takes as his standard the production of Ceylon cinchona-bark as expressed in pounds and not the quinine content thereof. Furthermore, it would appear that Mr. Bredt has hardly properly appreciated the true meaning of the word "toy," which, as applied in the context referred to, is, far from being out of place, strictly in accordance with facts. Ceylon's fickleness in regard to tropical cultivations is, as Mr. Bredt should be aware, notorious, to name but a few only, coffee, cinchona, rubber, and tea. Meanwhile, as Mr. Abrahamson himself controlled the whole quinine situation during the war, not only on behalf of the British Government, but of all the Associated Governments as well, it would be interesting to learn from him who the authorities were who furnished him with such precise "root-and-branch" information. Perhaps Mr. Bredt was one of them? If so, the author of the article in question is quite prepared to give Mr. Bredt any credit due to him. At the same time, Mr. Abrahamson, should he see this letter, will perhaps be so good as to say.

Yours faithfully,

THE WRITER OF THE ARTICLE.

On Advertisements.

SIR,—"Xrayser II.'s" remarks on advertising (*C. & D.*, June 26, p. 157) lead me to think of the many advertisements which are, as he states, works of art, but there are also many which are not. Greatly daring, therefore, may I point out a few which do not appeal to me as a retailer, and as personally I always like to know the other man's side of the question, may my presumption be forgiven? First, there is the advertisement that simply states "Jones, pillmaker" in the centre of a large blank space; well, it conveys nothing to me at all—the kind, the price, quantity, packed or bulk, etc.—and as I am already dealing with two or three firms who supply pills, I turn over to the next page. Here I find "Brown, wholesale druggist. All B.P. preparations guaranteed to conform to official tests." Useless information. If a thing is ordered and supplied as B.P.—well, it is; and as the *C. & D.* is a paper circulating among men with a knowledge of the trade, such an advertisement tells them something they already know; if it were read by the general

public it would be a different matter. So I turn over again and read "Jones & Brown, druggists' sundries, London." What a lot of time and trouble it would save me if they would also add "12 Aldwych Gardens, E.C. 28"; they may be a big firm, but London is much bigger. So, not caring to send my inquiry to such a vague address, I pass on to the next advertiser and am confronted with a miniature National Gallery of the board of directors. As a tribute to the prosperity of the wholesale trade, or as an anthropological study showing the beauty and intelligence of the British business builder, it may be an invaluable record, but I am turning over these pages to see if I can get an extra 5 per cent. on any lines, and portraiture *per se* does not interest me a scrap. Then there is the column devoted to a list of the gold medals, etc., won by the product advertised, almost as futile a draw as that of the retail man who features "gold medallist in botany, formerly dispenser to the Czar of Russia"; as a business proposition the gold medallist is not wanted. Finally, there is the good old stager that I can remember to have been displayed in the same style and with the same wording when I was first apprenticed; as an example of consistent advertising it is unrivalled, but to use an Irishism, I have seen it so often that I don't see it at all now. The advertisement that fetches my order is the one that includes the name, illustration, and brief description of article, wholesale and retail prices (if protected), extra discounts for cash and quantity, showcards (if any), and name and postal address of firm. Yours faithfully,

CHAS. HAMUS.

The Lure of the Orient.

SIR,—Mr. James McKenzie has evidently had a very good time abroad, and has been more fortunate than most of us in his colonial experiences, and it seems to me I made the fatal mistake of choosing the wrong colony. I should have gone to Singapore. But I can hardly think that all the pharmacies in Singapore close up at 5 P.M., and their customers have to wait till 9 A.M. next day for their medicine; or is it just possible that the assistants have to take it in turn to do night duty two or three times a week? In my case I found to my surprise that we opened at 7 A.M., that being the native custom, and we followed suit. Morning coffee was taken behind the counter, while the native boys dusted and cleaned up, and the pharmacy remained open to 9 P.M., with an hour and a half for lunch and the same for dinner; no tea time, although the English assistants usually made a cup in the dispensary. The hours on Sundays were the same, except that we closed from 1 to 5 P.M., and night duty came round twice a week, the assistant sleeping on the premises and answering all calls. With regard to sports, my experience was the same as that of your correspondents "Victims." The clubs were in the hands of either the military, the Civil Service, or the Mercantile Marine. The man in the shop could not have been more taboo if he had been a convict. There were not enough of us to form a club of our own if we had had the time. One assistant we had, newly arrived from home, saw a notice of one club, inviting new members, and he attended the meeting with a view to joining. On introducing himself to the secretary that gentleman turned his back. He was, in fact, deliberately ignored, nobody else spoke to him, and he eventually walked out in disgust, which was just what they intended he should. In my younger days, when I first spread my wings as far as the Continent, I used to be partly amused and partly annoyed at the caricatures of English tourists in the illustrated papers, but after several years' residence in the Colonies, with facilities for intimate observation of the snobbery of the Englishman abroad, I realise how true to life they were. At the same time, I would not dissuade any young fellow from going out if he had a wish to do so, but I would advise him not to expect an El Dorado on landing, any more than he expects to see the streets of London paved with gold, but to anticipate working as hard or harder than he would at home, with the added discomforts due to climatic conditions. And, above all, I would advise him to study the agreement well before he signs it, and to remember that the man who drew it up did so for the benefit of "No. 1," and not for the assistant.

Yours faithfully,

PRE-WAR COLONIAL. (3/7.)

Remaining an Assistant.

SIR,—May I say that remaining an assistant has little to do with lack of concentration? Unless a man has money from a safe loan or a legacy he has to rely on thrifty savings, which is slow progress, before he is wise to buy a business. He needs an excellent experience and equipment. Many avoid loans, and perhaps wisely; for, to a conscientious man, a loan is always an anxiety. Again, as an assistant in a really good business of some size, he moves in a busier and pleasanter atmosphere. He has wider scope for ideas, and learns more. Also, four assistants and a proprietor in a business returning 6,000*l.* or 8,000*l.* per annum can work more economically for each other's weal than they could as five separate proprietors. The overhead expenses of a business like this are less than those of five establishments, and greater profits are possible. Co-operation is a great thing, and it is certain that if big wage-earners in large engineering concerns were to separate and enter into competition their profits, as individuals, would not compare favourably with the co-operative working. Yours faithfully,

CO-OPERATION. (29/6.)

Dispensing Profits.

SIR,—The number of dispensing cases shown in your tabulated record of proceedings under the Profiteering Act (*C. & D.*, July 3, p. 69), reminds one that dispensing has been deemed a sale for the purposes of the Act. But it may be remembered that the cost-price tariff for Insurance dispensing was introduced on the ground that dispensing was a professional service, and therefore it was not at all the proper thing to take a sordid profit on the drugs supplied, but to charge a professional fee. Thus we get the curious anomaly of two Acts under the same Government directly opposed in principle. It is about on a par with the absurd notice we have to exhibit on early-closing days: "This shop is closed," etc., with the door wide open. Yours faithfully,

VIEUX FARCEUR. (9/19.)

Legal Queries.

J. R. W. (21/6).—If the laundry blue contains oxalic acid it can only be sold legally by a registered chemist.

Sinbad (5/7).—As we stated recently (*C. & D.*, June 19, p. 64), unless there is a definite agreement for summer holidays, employers are under no legal obligation to allow them.

N. B. (30/6) asks in what manner the transfer of a lease from one person to another is effected. [The transaction is effected by means of a deed of assignment, which should be prepared by a solicitor.]

D. H. W. (28/6).—A pharmaceutical chemist and chemist and druggist in partnership could not legally style themselves as "pharmaceutical chemists"; the chemist and druggist would be using a title to which he has no claim.

J. B. (5/7).—RETAIL PRICES.—"J. B.," who bought methylated spirit before the rise, and has hitherto, by agreement with his fellow-chemist, sold the spirit retail at 1*s.* 3*d.* per pint, is asked to agree to sell it at 1*s.* 6*d.* in future, as his neighbour has had to pay 2*s.* a gallon more for his supply. "J. B." asks how he will fare if he sells his methylated spirit at 1*s.* 6*d.* if a charge is brought against him under the Profiteering Act. [It is not possible to forecast with certainty what view a non-judicial body such as a Profiteering Committee would adopt, but the basis of the market price at the time of purchase by retail is now generally accepted. The various trade price-lists give the retail price at from 1*s.* 6*d.* to 1*s.* 8*d.* per pint.]

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

J. F. W. (21/6).—MAGNIFICATION IN FIELD-GLASSES is calculated by dividing the focal length of the objective by the focal length of the eyepiece. × 6 or × 8 means that the object is magnified that number of times. This can be tested by looking through each eyepiece separately at a brick or some other convenient object and looking beyond at the same time.

J. H. (29/6).—DOG DISEASE.—The symptoms you mention indicate that the dog is suffering from gastritis or dyspepsia. The animal should be fed on rice and milk, boiled sago, boiled fish, mashed potatoes mixed with minced meat, or any similar light diet. The following medicines are useful in these complaints :

I.	II.
Pepsin.,	Sodii bicarb.,
Carb. lig. pulv.,	Bismuth. carb. aa. ʒij.
Bismuth. carb. aa. ʒj.	Tr. nuc. vom. ... ʒj.
Sodii bicarb. ... ʒij.	Tr. rhei ... ... ʒiv.
Pulv. rhei ... gr. xxiv.	Tr. gent. co. ... ... ʒvj.
Ft. pulv. xij. One morning and evening.	Aq. ad ... ... ℥vj.
	Misce. One dessertspoonful to be given three times daily after food.

W. B. (3/7).—QUININE AND PHOSPHORUS TABLETS.—The tablets to which you refer consist of quinine phosphate (¼ gr. in each) diluted with sugar of milk.

Anco (5/7).—"QUINTESSENCE" in pharmacy is a term applied to a solution of an essential oil in spirit. Originally it was applied to an essence that had been distilled five times, but it is now only used in the general sense we mention.

G. B. D. (5/7).—ARGYROL is "freely soluble in water and glycerin, insoluble in oils and alcohol," according to the American Medical Association, so that a prescription ordering "2 per cent. in s.v. rect." would be a suspension and should be labelled "Shake the bottle."

P. H. (30/6).—MANUFACTURE OF STARCH.—There is no modern book in English dealing with the manufacture of starch. The articles in Allen's "Commercial Organic Analysis" and Thorpe's "Dictionary of Applied Chemistry" embody the best information obtainable on the subject.

M. C. G. (18/6).—BOOT-POLISH.—See *C. & D.*, December 27, 1919, p. 88, or "Pharmaceutical Formulas."

J. O. P. (16/6).—METOL DERMATITIS.—A large variety of soothing applications have been suggested for curing the dermatitis of the fingers caused by metol developer. The skin-creams with a casein basis are particularly useful, and lead lotion used at night is good. Diluted acetic acid has also been recommended, and also potassium permanganate, followed by oxalic acid.

A. E. F. (21/6).—A little vegetable fixed oil added to the ammoniacal turpentine liniment would thicken it.

Emulsion (28/6).—A small proportion of chloroform would act as an antiseptic in the hair-wash.

C. S. (83/9). SOLIDIFIED EAU DE COLOGNE.—The formula you send is on the right lines, but in making the preparation it is necessary to employ a copper vessel with tightly fitting screw cap—a miniature autoclave—otherwise the evaporation of the spirit will alter the proportion of the ingredients and waste the spirit. The better way is to heat the stearic acid and sodium carbonate with spirit only, and add the essential oils used for eau de Cologne at the end of the process. When the mixture has cooled down it is still liquid, and can be poured into moulds, which are placed in a refrigerator to set.

Croc (26/6).—HYPO ELIMINATORS.—The following are two chemical methods :

I.		II.	
Amm. persulphate	25 gr.	Potass. percarbonate	25 gr.
Sodium carbonate	50 gr.	Water	10 oz.
Water	10 oz.		

The plate, after fixing and rinsing, is soaked in either of the above solutions for five minutes, using several fresh portions of the solution selected. Then rinse with water and dry.

C. W. H. (29/6).—(1) CLOTH-BALLS.—These have for a basis magnesium carbonate or a mixture of that substance with starch and chalk. The material is compressed into blocks, a binding substance such as weak mucilage of tragacanth being employed. Some varieties contain quillaia extract. (2) LIQUORICE-PASTE.—The method of preparing this was published in the *C. & D.*, October 12, 1918, p. 52. It is too soon to repeat it.

J. C. (29/6).—PRESERVING RABBIT-SKINS.—To keep rabbit-skins fresh for some time, we suggest the use of equal parts of borax, boracic acid, and salt, sprinkled on the inside of the skins. These ingredients act as antiseptics.

Lux (30/6).—GOLDEN CORN-CURE.—The following is the formula to which you refer :

Ac. salicyl.	℥ij.
Æther. meth.	℥ij.
Ac. lactic.	ʒiv.
Collod. flex.	℥xx.
Chrysoidin	q.s.
Misce.	

J. E. J. (22/6).—(1) GUT PRESERVATIVE FOR TENNIS RACKETS.—A white, hard spirit-varnish diluted with an equal volume of spirit is used for this purpose. The spirit-varnish is made from a recipe such as the following :

Sandarac	5 lb.
Camphor	2 oz.
Powdered glass	3 lb.
Spirit	14 pints
Dissolve, strain, and add :	
Canada balsam	2 lb.

(2) CHEESE STARTER.—It is a lactic-acid preparation that is employed as a cheese starter. Samples of milk from different sources are placed in glass bottles and kept in a warm place until curdled. Sterilised milk is then inoculated by adding a teaspoonful of sour milk from several of the bottles. The sterilised milk is then allowed to curdle and the process repeated on more milk until a product is obtained which curdles milk in from eight to ten hours, and gives a smooth curd free from whey and gas bubbles, and with a pleasant acid taste. It is this product that is sold as cheese starter.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," July 15, 1870.

A College of Pharmacy.

Our Paris correspondent writes: "Since the question of establishing a distinct College of Pharmacy is mooted, it is to be hoped that lucrative professorships will be open to men who have the gift of imparting knowledge, as well as that of possessing it, and that lecturers like Orfila, and demonstrators like Bunsen, will conduce to raise English Pharmacy to its due position. It would seem natural that a lecturer or teacher of such subjects as chemistry, materia medica, or botany would, by the constant repetition of the same old theme, become at least fluent, not to say eloquent; but to hear the mumbling, disconnected phrases, the jerky reiterations apparently produced by some thumb-squeezing process, generally addressed to the black board of the lecture theatre, is enough to disgust an intelligent student, and to send him to books, nature, and his own thoughts, to rear an edifice on his own foundation, and crown it by passing a successful and honourable examination."

HE'S A HAPPY MAN THAT SHOWS THE MONS' MAN

Because business with him is always brisk and profitable—it cannot be otherwise, for does he not sell a line that gives him at least 66⅔ %, and one that interferes with nothing he at present handles—meaning additional business—whilst he knows that many a tooth brush, powder, and tube of paste is sold to the "Zepto" customer too—no wonder he's happy.

ZEPTO PENCILS

cost 5/3 per dozen, are constantly advertised, on P.A.T.A. 9d., and every 6-dozen order carries a show, and is supplied on terms that are even more magnanimous than indicated above. Have a "Mons' Man" and be a happy Chemist.

5/3 DOZ.

9d. P.A.T.A.

CLINATE for Straw Hats

Buy where you will, and pay what you like, there is not a preparation on this market that for high-grade efficiency, coupled with value and ease of application, can touch the convincingly packed Clinate for **Straw and Panama hats.**

Boxes, 36 3d. pkts., each 4/10
Boxes, 72 3d. pkts., each 9/-

Stocks are fairly good at the moment, and orders can be guaranteed immediate dispatch.

FACE CREAM OF QUALITY

is only a just description of this splendid peroxide Vanishing Cream. Few, if any, creams are so elegant and secure so many staunch adherents in so short a time. Indeed,

NYAL'S

cannot be excelled either at home or abroad, and while stocks are good any quantity will be gladly sent at once.

10/6 per dozen, sells at 1/6 per jar.

THOS. CHRISTY & CO., 4/12 Old Swan Lane, London, E.C. 4.

T. & H. SMITH LTD

MANUFACTURERS

OF

MORPHINE, CODEINE

AND ALL OPIUM PRODUCTS.

CANTHARIDIN

SALICIN	CAFFEINE	ALOIN
CAPSICIN	EMETINE	GINGERIN
STRYCHNINE	CHLOROFORM	THEOBROMINE
PODOPHYLLIN	JALAP RESIN	SCAMMONY RESIN

Blandfield Works, EDINBURGH. *25 Christopher Street, LONDON, E.C.* *37 Washington Street, GLASGOW.*

EPSOM SALTS

Druggist & Commercial Qualities.

ZINC SULPHATE

(White Copperas).

ZINC CHLORIDE

Fused, Granulated and Liquid.

GLAUBER SALTS

PROMPT & FORWARD DELIVERIES.

INQUIRIES SOLICITED.

William Blythe & Co., Ltd.

Chemical Manufacturers,

Church, Lancashire.

Victor Blagden & Co.,

4 Lloyd's Avenue, London, E.C.3

Telegrams: "Blagdenite, Fen London."
Telephone: Avenue 6353 (4 lines).

Middlesbro'. Paris. Sydney.

ACETIC ACID
FORMALDEHYDE
TRIOXYMETHYLENE
NAPHTHALENES
OXALIC ACID
POTASSIUM BROMIDE

Supplies of every description of Coal Tar, Ammonia and Cyanogen Products.

PURE AND RELIABLE PHARMACEUTICAL PREPARATIONS

CIBA BRAND

PARAMIDOPHENOL.
AMMON. ICHTHYO.
PYRAMIDON.
VANILLIN.

DIAMIDOPHENOL.
METHYLENE BLUE.
GUAIACOL CARB.
ASPIRIN.

CIBACIBACIBACIBAC
IBACIBA
"CIBA"
Chemicals.
IBACIBA
CIBACIBACIBACIBAC

BARBITON.
PHENACETIN.
TANNIN ALBUMINATE.
POT. SULPHOGUAIACOLATE.
ETC.

METAGOL.
PHENAZON.
PHENOLPHTHALEIN.
CHLORAL HYDRAS.
ETC.

Sole Concessionaires for the British Empire
THE CLAYTON ANILINE COMPANY LTD
(PHARMACEUTICAL DEPT)
68½ Upper Thames Street London E C 4

For Prompt Delivery.

Amyl Butyrate. Butyric Ether.

Capsicine. Gingerine.

J. F. MACFARLAN & Co.,

EDINBURGH & LONDON.

BENZOATES

WORKS
LONDON &
MANCHESTER

Phone: London Wall 7781

SUPERFINE QUALITIES

ACID BENZOIC B.P.
AMMON. BENZOATE B.P.
LITHIUM BENZOATE.
SODA BENZOATE B.P.

BENZOATES LIMITED
76 FINSBURY PAVEMENT
LONDON, E.C.2

Telegrams Hydracetol London

BUSH, BEACH & GENT, Inc.
10 Union Court, Old Broad Street,
LONDON, E.C.2.

Telephone: London Wall 1451.
Telegrams: "Beafredma, London."

AND AT NEW YORK.

THE People for:

Acid BUTYRIC

Acid SALICYLIC

B.P. and Technical.

Write for Quotations.

WHOLESALE ONLY.

BRITISH DYESTUFFS CORPORATION

LIMITED

BDC

TRADE-MARK

MANUFACTURERS of

PHARMACEUTICAL and PHOTOGRAPHIC SPECIALTIES

Sales Office—70 Spring Gardens, MANCHESTER.

Salicylic Acid, B.P.

Sodium Salicylate, B.P.

Acetanilide, B.P.

HOLT, THOMPSON & Co.

LIMITED,

Fine Chemical Manufacturers,

Binns Road, LIVERPOOL.

Telephone - Old Swan 413.
Telegrams—"Salol Liverpool."

GOLD MEDAL INTERNATIONAL CONGRESS OF MEDICINE LONDON 1913.

THE NON-IRRITANT
LOCAL ANÆSTHETIC.

NOVOCAIN

DOES NOT CONTAIN COCAINE.

The original preparations as supplied by us for the past 12 years.

Medical and Dental Tablets and Powder.

No Home Office Permit necessary.

THE SACCHARIN CORPORATION LTD.
Pharmaceutical Department.
36, 37, QUEEN STREET, CHEAPSIDE, LONDON, E.C.4.

Contractors to:-

WAR OFFICE.
INDIA OFFICE.
CROWN AGENTS for the COLONIES.

CANADIAN GOVERNMENT.
FRENCH GOVERNMENT.
BELGIAN GOVERNMENT.
ITALIAN GOVERNMENT.
ETC. ETC.

BRITISH RED CROSS SOCIETY.
FRENCH RED CROSS SOCIETY.

'ROCHE' PRODUCTS

ALKALOIDS

ARECOLINE HYDROBROMIDE
CAFFEINE AND SALTS
COCAINE HYDROCHLORIDE
COLCHICINE AND SALTS
ESERINE AND SALTS
HYOSCINE HYDROBROMIDE
PILOCARPINE AND SALTS
SPARTEINE SULPHATE
STRYCHNINE AND SALTS
THEOBROMINE AND SALTS
YOHIMBINE HYDROCHLORIDE

FINE CHEMICALS

AMIDOPYRINE
BARBITONE
PHENAZONE
SILVER PROTEINATE
SILVER NUCLEINATE
TANNIN ALBUMINATE

'Roche' Specialities

'AIROL'
'DIGALEN' 'IODOSTARIN'
'OMNOPON'
'SEDOBROL' 'SPASMALGIN'
'THIGENOL' 'THIOCOL'

THE HOFFMANN-LA ROCHE CHEMICAL WORKS LTD.,
7&8 IDOL LANE, LONDON, E.C.3.

OFFER SALTCAKE

95 Per Cent.
(*Natural ground*)

BAGS. BARRELS. BULK.

C.I.F. ANY PORT.
PROMPT SHIPMENT
CONTRACTS
1920——1921

Further information furnished on request

CARAVEL COMPANY, LTD.

110 CANNON STREET, E.C.4

Phones: City 7058—7059
Telegrams: "Avcarelix, Cannon, London."

RAOUL FRERES

can offer to advantage the following:

Acid Salicylic P.B.	Metol pure 100%
,, Benzoic P.B.	Pot. Bromid. P.B.
Antipyrin	,, Permang. P.B.
Ammon. Bromid. P.B.	Phenazone
Coumarin	Phenacetine
Creosote Carbonate	Pyramidon
Goa Powder	Quinine Hydrochlor. P.B.
Guaiacol Carbonate	,, Sulphate P.B.
Hexamine	Resorcin, pure crystals
Hydroquinone	Soda Sulphite, pea crystals

IMMEDIATE DELIVERY.

6 HOLBORN VIADUCT - - - LONDON, E.C.1
Telephone: Central 8728.

HAMMOND JEFFERY & CO., Ltd.,

8 HARP LANE, LONDON, E.C. 3.

Telephone: Central 9521. Telegrams: "Diuretic, Bilgate, London."

BROMURAL
DIURETIN
EURESOL
SANTYL
STYPTOL
TANNALBIN

Price List and Particulars on Application

L. ROZEN & CO.

36/37 MINCING LANE, LONDON, E.C.3

BRANCH OF THE RUSSIAN TRUST & FINANCE CO., LTD. (*A BRITISH HOUSE*)

Telegrams : "Ocnezorle" Telephones : Avenue 3263/4, 5986, 5440.

MERCHANTS & MANUFACTURERS

All kinds of

(1) Botanicals and Crude Drugs
(2) Spices
(3) Gums
(4) Medicinal Seeds
(5) Fine and Heavy Chemicals
(6) Soaps
(7) Essential Oils

Such as

(1) Ergot, Gentian, Henbane, Henna, Insect Flowers, Licorice, Lycopodium, Scammony, Senega, Senna, etc.
(2) Cinnamon, Cloves, Nutmegs, Pepper, etc.
(3) Aloes, Arabic, Tragacanth, etc.
(4) Aniseed, Cardamoms, Coriander, Cumin, Fenugreek, Wormseed, etc.
(5) Phenacetin, Saccharine, Santonin, Bicarbonate, Bichromate, Soda Ash etc.
(7) Anise, Birch Tar, Coriander, Rose, etc.

Representatives and Branches in almost every European Country, and in the United States of America, India, Egypt, China, Japan, and many others.

WE ALWAYS HOLD SUBSTANTIAL STOCKS.

W. SUTER & CO.

12 Edmund Place,
LONDON, E.C.1.

CHLOROPHYLL
ASPIRIN
RESORCIN
PINEOIL.

"ELMITOLFO London." CITY 5792.

CREAM OF TARTAR

99/100 % B.Ph.

Finest Essential Oil Lemon,

New Crop

We have large consignments for sale and are quoting particularly favourable prices.

C. W. FIELD, Ltd.,
92 Wood Street, LIVERPOOL.

TARTARIC ACID
CREAM OF TARTAR
CITRIC ACID

J. KHAMBATA & CO.

3 & 4 Ct. Winchester St.,
LONDON, E.C.2.

Telephone : London Wall 5383.

Telegrams :
Foreign—"Jehangir London."
Inland—"Jehangir, Ave, London."

Telephones: (Head Office), AVENUE 1729 (3 lines). (General Chemical Dept.), AVENUE 6998 (2 lines).

CHAS. PAGE & CO., Ltd.,

Telegrams: "PAGANINI LONDON."

47/51 KING WILLIAM STREET, LONDON, E.C. 4.

Central 1858 (2 lines).

And at 26 BROWN STREET, MANCHESTER.

"PAGANINI MANCHESTER."

OFFER AT FIRST HAND:

ACID BENZOIC
" GALLIC
" CITRIC
" SALICYLIC
" TANNIC
" TARTARIC
BENZO NAPHTHOL
HEXAMINE
HYDROGEN PEROXIDE
METHYLENE BLUE
NAPHTHALINE (Marbles and Flakes)
PARALDEHYDE
PHENACETINE
PHENOLPHTHALEIN
POTASSIUM PERMANGANATE
RESORCIN
SODIUM BENZOATE
" CARBONATE
" HYPOSULPHITE
" SALICYLATE
" SULPHITE
TARTRAZINE
VANILLIN

WHOLESALE QUANTITIES ONLY.

BURKETT, SHARP & CO., LTD.

DRUGS 21, MINCING LANE, LONDON, E.C.3 *CHEMICALS*

Pyrogallic Acid Gallic Acid

Manufactured by J. L. ROSE
At ABBEY ROAD, BARKING, LONDON, E.
Wholesale and Export Only.

TARTARIC ACID B.P.

Manufactured by
LANKSHEAR, WICKSTEAD & CO., Ltd.,
Botany Mill, WOODLEY, Eng.
All Inquiries to London Office, 557 Mansion House Chambers, 11 Queen Victoria Street, E.C. 4. Telephone: City 7546.

CELLULOSE ACETATE TRIPHENYLPHOSPHATE
POWDER ASPIRIN (B.P.) TABLETS ACETIC ANHYDRIDE
TRICRESYL PHOSPHATE

IMMEDIATE DELIVERY of the above by the MANUFACTURERS—

The BRITISH CELLULOSE & CHEMICAL MANUFACTURING CO., Ltd.
8 WATERLOO PLACE, LONDON, S.W. 1.
WORKS: SPONDON, DERBY, AND WILLESDEN.
Telephone: REGENT 4045. Telegrams: "CELLUTATE LONDON."

Hubbuck's Pure Oxide of Zinc

is made by sublimation, and is warranted to contain upwards of

99·5 PER CENT.

of pure oxide; in fact the impurities are not traceable.

Thos. Hubbuck & Son, Ltd.
ESTABLISHED 1765
24 Lime Street, London, E.C. 3.

MANUFACTURERS OF WHITE LEAD, WHITE ZINC, PAINT, OILS, COLOURS, VARNISHES, &c.

Australian Office: 34 Queen St., Melbourne.

Sold by the following Wholesale Druggists in Boxes of 7 lbs. and 14 lbs. stamped by the Manufacturers; also in 1-lb. Boxes and 1-lb. Glass Bottles:—

Allen & Hanburys (Lim.)
Ayrton, Saunders & Co. (Lim.)
Baiss Bros. & Company [(Lim.)
Bell, Jno., & Co. [(Lim.)
Bleasdale (Lim.) [(Lim.)
Boots' Pure Drug Co.
British DrugHouses(Lim.)
Burgoyne, Burbidges & Co.
Butler & Crispe [(Lim.)
Clay, Dod & Co.
Cockburn & Co. (Lim.)
Corbyn, Stacey & Co.
Dakin Brothers. [(Lim.)
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Evans Sons Lescher & Webb (Lim.)
Ferris & Co.
Gale & Co.
Glasgow Apothecaries' Co.
Glasgow New Apothecaries' Co.
Goodall, Backhouse & Co.
Harker, Stagg & Morgan (Lim.)
Harkness, Beaumont & Co.
Hatrick, W. & R., & Co.
Hirst, Brooke & Hirst.
Hodgkinson, Prestons & King.
Hodgkinsons, Clarke & Ward.
Horner & Sons.
Huskisson, H. O., & Co.
Inman's Stores (of Edinboro').
Ismay, John, & Sons
Lofthouse & Saltmer (Lim.)
Oldfield, Pattinson & Co.
Pinkerton, Gibson & Co.
Raimes, Clark & Co.
Raimes & Co.
Rankin & Borland.
Silversides, R. B. G.
Southall Bros. & Barclay.
Sumner, R & Co.
Taylor, James.
Thompson, John (Lim.)
Willows, Francis, Butler & Thompson (Lim.)
Woolley, Jas., Sons & Co. (Lim.)
Wright, Layman & Umney (Lim.)
Wyleys (Lim.)

Barry, E. J., New York.
Finlay Dicks & Co., New Orleans.
Langley & Michaels, Co., San Francisco.
Lehn & Fink Inc., New York.
McKesson & Robbins Inc., New York.
Muth Brothers & Co., Baltimore.
Roller & Shoemaker, Philadelphia.
Schieffelin & Co. Inc. New York.
Shoemaker & Busch, Philadelphia.

Special Offer this issue

GUM TRAGACANTH

CHLORIDE BARIUM.
OXALIC ACID.
ACIDS FOR EXPORT.
FORMIC ACID.
GUM ARABIC.

GLUES, GELATINES
GUMS AND WAXES.
INKS, SEASONS, FINISHES.
LOGWOOD PRODUCTS.

CHEMICALS
CHEMICALS

BORAX.
BORIC ACID.
SODA HYPO.
BICHROMATES.
CHROME OXIDES.

IRISH MOSS.
DYE-WOOD & TANNING EXTRACTS
OILS, CHROME AND FAT LIQUORS.

GOUGH, KIDSTON & CO.
12 BERMONDSEY SQ., LONDON, S.E.
City Office: 43-45 Great Tower Street, E.C.
Tel. Add.: "Oughidston, Phone, London." Phone: 2029 Hop.

Telephone: Central 10238.
Telegrams: "Diluggo, Bilgate, London."

CHARLES LANE & SONS

7 & 8 Idol Lane, LONDON, E.C.3

EUCALYPTUS OIL

B.P. 70/75%

STOCKS IN LONDON

GELATINES

SAMPLES AND QUOTATIONS FOR WHOLESALE QUANTITIES.

Fine Pharmaceutical and Heavy Chemicals.

R. MORRISON & CO.

Importers—Exporters—Manufacturers' Agents

CHEMICALS, DRUGS, ESSENTIAL OILS :: FISH AND SEED OILS

2 FEN COURT, LONDON, E.C. 3.

Invite Inquiries from the Wholesale and Shipping Houses for :—

Acetanilide
Acetic Acid
Acetyl-Salicylic Acid
Agar Agar
Aloes
Atropine Salts

Balsam Canada
" Copaiba
" Peru
" Tolu
Beeswax
Belladonna
Bismuth Salts
Boracic Acid
Borax
Botanical Drugs
Bromide Salts

Caffeine Salts
Calcium Lactate
Camomiles
Camphor
Cantharides
Cardamoms
Carmine
Cascara Sagrada
Castor Oil
Chiretta
Chloral Hydrate
Cinnamon
Citric Acid
Cocaine Salts
Cod Liver Oil
Cream of Tartar
Cumin Seed

Dextrine
Digitalis Leaves
Egg Yolk
Ergot of Rye
Farina
Formaldehyde
Gentian Root
Glycerine
Glycerophosphates
Gum Arabic
" Benzoin
" Myrrh
" Tragacanth
Henbane Leaves
Hexamine
Honey
Insect Flowers
Insect Powder
Iodide of Potash
Ipecacuanha
Jalap
Juniper Berries
Liquorice Juice
Liquorice Root
Malt Extract
Manna
Menthol
Methyl Salicylas
Morphia Salts
Olive Oil
Orange Peel
Orris Root
Otto of Rose
Oxalic Acid

Pepsin
Phenacetine
Phenolphthalein
Podophyllin

Quicksilver
Quinine Salts

Rhubarb

Saccharine
Safrol
Saffron
Salicylic Acid
Salicylate of Soda
Salol
Saltpetre
Santonine
Sarsaparilla
Senega Root
Senna
Spermaceti
Starch
Stramonium
Strychnine Salts
Sugar of Milk
Sulphate of Copper
Sulphur Flowers
" Precipitated
" Roll
Sulphonal

Tannic Acid
Tartaric Acid
Thymol

Vanillin
Vanilloes
Vegetable Wax

ESSENTIAL OILS

Aniseed
Bergamot
Cajuput
Cassia

Cedarwood
Citronella
Eucalyptus
Lemon

Orange
Peppermint
Sandalwood

EMETINE

HYDROCHLORIDE
HYDROBROMIDE

ALSO

EMETINE-BISMUTH-IODIDE,
ATROPINE, STRYCHNINE,
CAFFEINE, THEOBROMINE, NICOTINE
QUININE SALTS,
IODINE & BROMINE PREPARATIONS

Mercurials, Refined Camphor.

MORPHINE AND CODEINE

Alkaloids and Salts.

Opium and all Opium Derivatives.

SANDAL WOOD OIL.

Whiffen & Sons, Ltd., are sole Consignees of the

Mysore Government

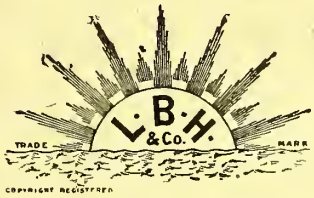
Standard Product.
Complies with requirements of all Pharmacopœias.

Samples can be had upon application to—

WHIFFEN & SONS, LTD., BATTERSEA, LONDON, S.W. 11.

Telegrams: "WHIFFEN LONDON." Telephones: 254, 255 BATTERSEA. Codes for Telegraphing: A B C, Lieber's.

L. B. HOLLIDAY & CO., LTD.



ARE MAKING AND CAN GIVE PROMPT DELIVERIES OF:—

SALICYLIC ACID B.P.
ACETYL-SALICYLIC ACID B.P. (ASPIRIN).
Finest Quality
Best Appearance
Lowest Price
TARTRAZINE
AURAMINE II.
METHYLENE BLUE, Z.F. CONC.
METHYLENE BLUE (Medicinal Quality).

SEND YOUR INQUIRIES TO:

Sales Department,
HUDDERSFIELD.

Telephone: 1840 HUDDERSFIELD (4 Lines).
Telegrams: "DYEWARES HUDDERSFIELD."

PRECIPITATED CRETA PRÆCIP.

"Sturge's Chalk."

Lightest on the Market.

CHALK.

All grades from the LIGHTEST to VERY DENSE.

MANUFACTURED BY

JOHN & E. STURGE, Ltd., 18 Wheeleys Lane, BIRMINGHAM.

Agents:

H. J. BAKER & BRO., 81 Fulton Street, NEW YORK.

G. REINBOLD & CIE, 63 Rue des Archives, PARIS.

Also Manufacturers of—

CITRIC ACID, BICARBONATE OF POTASH, ROCHELLE SALTS and pulv. SEIDLITZ, FLUID MAGNESIA, and "CITRATE OF MAGNESIA," and other Effervescent Saline Preparations.

Telegrams: "Sturgeon Birmingham."

PEROXIDE OF HYDROGEN

OF ALL STRENGTHS AND FOR ALL PURPOSES

The PUREST and CHEAPEST on the market

B. LAPORTE, Limited,

LUTON (BEDS.)

AND AT BRADFORD

Telegrams: "Laporte Luton."
Telephone: Luton 891

A. S. PRICE & CO., LTD.

Manufacturing Chemists,
BLACKHEATH, BIRMINGHAM.

SPECIAL OFFERS.

Subject unsold. Net cash. F.O.R. or delivered locally.

ACID SULPHURIC PUR. B.P. Carboys at 5½d. per lb.
ACID SULPHURIC PUR. (for analysis). Winchesters at 9d. lb.
ACID SULPHURIC "OLEUM" (20%) Winchesters at 9d. lb.
ACID NITRIC PUR. Carboys at 8d. per lb.
ACID NITRIC COML. Carboys at 5½d. lb.
ACID NITRIC "FUMING." Winchesters at 1/3 lb.
ACID HYDROCHLOR. PUR. Winchesters at 5½d. lb.
ACID SULPHUROUS B.P. Winchesters at 3½d. lb.
ACID ACETIC GLACIAL 95% Winchesters at 1/- lb.
ZINC GRANULATED (arsenic 1 in 10 millions) 2/- per lb.
POT. NIT. PULV. (Refined 99½%) 75/- 1 cwt.; 5 cwts. at 70/-: 1 ton at 69/-.
OL. EUCALYPT. B.P. 1 lb. 3/9, Wr. 3/6, Cases 3/-
LICORICE. 2 oz. sticks, 7 lb. at 4/6, 14 lb. at 4/3, 1 cwt. cases at 4/-
OL. LIMONIS. OPT. 8/6 lb. in 1 lb. bots.
OL. ANISI. B.P. 7/- lb. orig. Lead at 6/6.
SAFROL. 7/6 lb., 7 lb. at 7/3 (in 1 lb. bots.)
ACID TART. PULV. B.P. 4/3 lb., 1 cwt. at 4/-, 5 cwts. at 3/11.
GUM JUNIPER. 2/6 lb., 14 lbs. at 2/3.
CURRIE POWDER, Finest, 1/6 lb., 7 lb. at 1/4, 1 cwt. at 1/2
SUGAR OF MILK. 2/6 lb., 7 lb. at 2/4.
FLAVOURING ESSENCES, assorted, 1 oz. at 9/6 doz., 2 oz. at 16/6 doz.
GROUND MACE, good. 1/11 lb., 14 lb. at 1/10.
GROUND CLOVES. 2/2 lb., 14 lb. at 2/1.
ARROWROOT. 9½d. lb., 14 lb. at 9d.
GROUND GINGER. 9½d. lb., 14 lb. at 9d.

Telegrams: "Custard, Blackheath, Staffs." Telephone: Cradley 174.

Alliance Drug & Chemical Co., London

Offices: 34 LEADENHALL STREET.

NOTE.—Only terms, Net Cash with order without discount, or orders accepted through London Merchants or Bankers.
Goods carriage forward; all packages free; Export cases extra.

Acet. Ipecac., B.P., 6 lbs. @ 2/8 lb.
„ Scillæ, P.B., 6 lbs. @ 8½d. lb.
Acid Acetylo-Salicyl., 1 lb @ 7/0 lb.
„ Benz. B.P., 1 lb. @ 6/2 lb.
Bismuth, P.B., Carb., 3 lbs. @ 18/2 lb.; 1 lb. @ 18/4 lb.: subnit., 3 lbs. @ 16/3 lb.: 1 lb.
„ Salicyl., 1 lb. @ 13/6 lb. [@ 16/7 lb.
Camphor, English Flowers, "not artificial," 5 lbs. @ 14/6 lb.; ½ oz. 7 lbs. @ 14/6 lb.
Chlorodyne, 5 lbs at 4/5 lb
*Chloroform, pure, B.P., 12 8-lbs. @ 5/- lb; 8 lbs. @ 5/2 lb.; 6 1-lb. bots. @ 5/9 lb.
Ext. Cascara Sag. Liq., B.P., 1 cwt. @ 2/10 lb.; 10 lbs. @ 3/1 lb. [@ 51/- lb.
*Ext. Ergot. Liq. P.B., 5 lbs. @ 50/- lb.; 1 lb.
Fol. Senna Tinnev., 1 cwt. @ 11d. lb.; 7 lbs. @ 1/1 lb.
*Liq. Ammoni Acetatis Conc. 1-7, 6 lbs. @ 2/1 lb.; 1 lb. @ 2/6 lb.
* „ Ammon. Aromat., 6 lbs. @ 1/3 lb. [1 lb.
* „ Arsenicalis. B.P., 7 lbs. @ 6½ lb.; 1 lb. @
Ol. Eucalypt., P.B., 1 cwt. @ 2/11 lb.; 28 lbs. @ 3/- lb.; 9 lbs. @ 3/3 lb.
Potass. Brom P.B., 7 lbs. @ 4/5 lb.
Potass. Chlor. Pulv. 7 lbs. @ 1/6 lb.
Potass Cit., B.P., 7 lbs. @ 8/- lb.
Sodii Bromid P.B., 7 lbs. @ 4/10 lb.
Sodii Salicyl. Pulv., 2 lbs. @ 4/8 lb [6/4 lb.
*Spt. Æther Nit., P.B., 4½ lbs. @ 6/- lb; 1 lb. @
* „ Ammon. Aromat., P.B., 5 lbs. @ 4/11 lb.
* „ Chloroform, P.B., 5 lbs. @ 6/6 lb.
*Syr. Scillæ, P.B., 7 lbs @ 1/6 lb
* „ Sennæ, P.B., 7 lbs. @ 1/11 lb.
* „ Tolut. P.B., 7 lbs. @ 1/9 lb.
*Tinct. Nucis Vom., B.P., 5 lbs. @ 4/10 lb.; Aquos, 1/9 lb.
*Tinct. Opii. B.P., 5 lbs. @ 6/- lb.
*Tinct. Quininæ Amm., B.P., 5 lbs. @ 5/- lb.

*Minimum quantity at these prices; Home Trade, 3 Winchester Quarts assorted; Export, 12 Winchester Quarts assorted.
In comparing prices it must be borne in mind that bottles and packages are free and not charged, but are credited if returned.

ORION
BRAND.

SACCHARIN 550
COUMARIN 100%
VANILLIN 100%
READY ON SPOT.

APPLY TO DIRECT SHIPPERS
Linton, Hubbard & Andrew,
72-75 Fenchurch St., London, E.C.3.
Telephone: 1892 Avenue. A B C and Lieber's Codes.
Cables and Telegrams: "LINTEOLO LONDON."

CACHETS
are the best vehicles for giving medicine in powder form. They dissolve immediately and the drug is set free at once.
4/- per 1000 all sizes
Special quotations for quantities.
Cicero S. Clark, 12 Richmond Rd., Bayswater, W.2.

ALL CHEMISTS SHOULD STOCK ABDINE
THE GOLD MEDAL FRUIT DRINK.
Quick Seller. Big Profits. Over 40 years' Reputation.
"Abdine" is the most popular Health Drink, superior to all Mineral Waters. Sold in Packets, **2d.** each.
Wholesale Prices on application. Sample Box 1/6.
D. M'CLASHAN, M.P.S., [Abdine Works, Westfield Road, EDINBURGH.

CAMOMILES

WHOLESALE ONLY.

F. J. CARMICHAEL & CO.,
17 Water Lane, LONDON, E.C.3.

FOR
Acids SULPHURIC HYDROCHLORIC NITRIC
Resorcin
Mercurials
Cascara Bark
Saccharin
Chloral Hydrate

Ask BERK

F. W. BERK & CO., Ltd.
1 FENCHURCH AVENUE, LONDON.
Works—STRATFORD and MORRISTON.
Telephone: 4032 Ave. Telegrams: "Berk, Phone, London."

In addition to the "APOLLO" Brand of P STICK LIQUORICE JUICE, MacAndrews & Forbes, Ltd., make an equally high-class stick, which they sell under registered brand of "MAFCO." This Stick Juice is guaranteed pure extract of the richest Liquorice Root in the World.

APOLLO

It has a strong liquorice flavour due to its highly-concentrated form. Like "APOLLO" Juice, it is highly soluble and free from dirt and grit. These Juices are made by the largest Pure Liquorice Manufacturers in the World, under direct supervision of an expert British Staff.

MACANDREWS & FORBES, Ltd., 2 Broad St. Place, London, E.C. 2.
ESTABLISHED 1857.

Guaranteed
SACCHARIN
TABLETS.

Average over 7000 to pound.

Quantity.	½ grain 330.	⅓ grain 330.	¼ grain 330
1-lb.	47/-	35/-	28/- lb.
7-lb.	46/-	34/-	27/- ,,
14-lb.	45/-	33/-	26/- ,,
100's boxes	9/-	7/-	6/- doz.
200's ,,	16/6	13/6	11/- ,,

Less 6d. per doz. in gross lots.

CASH WITH ORDER, POST PAID ON £2 VALUE; ORDERS LESS THAN £2 ADD 6d. FOR POSTAGE.

A full-signed guarantee will accompany each order. We take the risk, you take the profit.

WALTON, Chemist, BATLEY.

BRADSTREET'S
BRITISH LTD.

(In association with BRADSTREET'S INTERNATIONAL LTD., and THE BRADSTREET COMPANY OF NEW YORK)

presents with SPEED and EFFICIENCY the most reliable LOCAL KNOWLEDGE as to the status of Business houses in EVERY COUNTRY and EVERY MARKET of the World, and is

THE GREATEST INTERNATIONAL MERCANTILE AGENCY under BRITISH CONTROL.

It embodies 70 years' experience and, both for HOME and FOREIGN reports, offers a Commercial Intelligence Service second to none.

DIRECTORS:

Sir RICHARD V. VASSER-SMITH, Bart., Chairman.
G. P. HARBEN, Vice-Chairman.
THE EARL OF HARROWBY. | *FREDRIC WISE*
SIR T. H. PENSON. | *E. J. RADCLIFFE.*
General Manager, EDWARD N. LAXTON. | *Secretary, R. CRAMPTON.*

Head Office: 137 CHEAPSIDE, E.C. 2.

For Terms of Subscription, write or 'phone "CITY 1975."

DISTRICT ADDRESSES:

	Phone No.:
LEEDS—Phœnix Chambers, South Parade.	Leeds 22182
MANCHESTER—26 Cooper Street.	Manchester City 3449.
GLASGOW—90 Mitchell Street.	Glasgow 7938.
BIRMINGHAM—39A New Street.	Birmingham Central 6085.
BRISTOL—23 Baldwin Street.	Bristol 3572.
BELFAST—16 Donegall Square South.	Belfast 276.
LIVERPOOL—Prudential Buildings, Dale St.	——

PEPSIN-STEARNS, B.P. & U.S.P. DIGESTIVE FERMENTS

We invite your attention to our comprehensive line of Pepsins and allied products:

Pepsin, New Method (spongy), 1:2500, 1:3000, 1:6000
Pepsin, powdered, 1:2500, 1:3000, 1:6000, 1:10,000
Rennin
Diastase, powdered, various strengths
Pancreatin
Haemoglobin
Thyroid Glands, B. P. & U. S. P.
Oxgall, powdered
Beef Peptone, powdered or paste
Peptonum Siccum—purified beef peptone for bacteriological purposes

STEARNS QUALITY FOUNDED 1855

Prompt Service

FREDERICK STEARNS & COMPANY

Home Offices and Laboratories

DETROIT, MICHIGAN, U. S. A.

Windsor, Ont. New York San Francisco Sydney, N.S.W. Calcutta: 8 Waterloo St.

Manufacturers of Digestive Ferments, Pharmaceutical Specialties, Buyer's Packed Goods, High-Class Toilet Requisites, Private Formula Products. Inquiries invited.

GETS-IT

(The World-Famous Corn Remover)

"Gets-It" is a liquid which dries at once when applied to corns or calluses with the glass applicator that accompanies each bottle. Stops pain at once and soon loosens the corn or callus so that it can be lifted right off.

Used by Many Millions throughout the balance of the world, and certain of enthusiastic reception here.

Now Distributed in Great Britain through

THOMAS CHRISTY & CO.

4, 10 & 12 Old Swan Lane, Upper Thames St., London, E.C.

Manufactured by E. LAWRENCE & CO., Chicago, U.S.A.

REAL SILVER LEAF

As supplied for many years to the leading Houses for Pills, Cachous, &c.

We also supply

GOLD LEAF AND GOLD POWDERS

WHOLESALE ONLY.

E. WINTER & CO. LTD.

Head Office: 64 Cheapside, London, E.C. 2.

TELEPHONE: Central 985.

TOMODA & COMPANY,

WHOLESALE DRUGGISTS, EXPORTERS, IMPORTERS AND MANUFACTURERS.

OFFICES: Tokyo, Yokohama, Osaka, Dairen (Dalny), Singapore. FACTORY: Hiranuma, Yokohama.
LABORATORY: Marunouchi, Tokyo.

THE SUPPLIERS OF THE FOLLOWING JAPANESE PRODUCTS:

Ammonia Sulpho-Ichthyol, Agar-Agar, Aniline Oil, Argent. Proteinic, Arsenobenzol, Caffein Pure, Camphor, Chalk Precipitated, Chamomile Flowers, Cod Liver Oil, Copper Sulphate, Epsom Salts, Glycerine, Insect Flowers and Powder, Iodide Potass., Iodide Soda, Iodine Pure, Iodoform, Kuromoji Oil, Magnesia Carbonate, Menthol, Menthol Cones, Naphthalin, Neoarsenobenzol, Peppermint Oil, Salicylic Acid, Salicylate Soda, Sulphate Iron, Staraniseed, Talcum, Yellow Prussiate Potass., Zinc Oxide, Ginger, etc. etc. Also Glasswares and Bottles.

Correspondence respectfully invited to

TOMODA & CO., 4-CHOME, HONCHO, NIHONBASHIKU, TOKYO.

AMERICAN FIRM

Seeking Exclusive Representation.

Member of American Firm, now in London, desirous of enlarging our business, financially responsible, having been engaged for half a century in the manufacture of

Shellacs and Glues,

is open for negotiations with reputable concern who would like to further their interests in America. Can produce finest credentials. We are seeking exclusive representation in the following :—

Shellac, Gums, Glues, Gelatines, Chemicals

and other kindred lines.

To those interested, address me, in care of this publication.
E. S., Box 11/7F, Office of this Paper.

Cable Address: "CELAITCH NEW YORK."

Codes: ABC, Fifth; Bentley's Improved Private.

CHAS. L. HUISKING, INC.

5 Platt St., New York City.

BROKERS & COMMISSION MERCHANTS, DRUGS : CHEMICALS : OILS : SPICES. PROPRIETARY MEDICINES, DRUGGISTS' SUNDRIES.

Buying and Selling Agents for leading Houses in all parts of the World.

European Manufacturers desirous of placing their goods in the American market would do well to communicate with us. Our outlet for goods is very large.

London Correspondents—CHAS. L. HUISKING, LTD., 47 Lime Street, London, E.C.3.
Cable Address: "CELAITCH LONDON."

WILD CHERRY BARK.

H. R. LATHROP & CO. Inc.

Drug Merchants

CABLE ADDRESS: "SISCOSTAL"

A B C — 5TH EDITION
SAMPER 2A EDICION
BENTLEY'S 5-LETTER

116 BEEKMAN STREET,
NEW YORK, N.Y.

BUY FROM THE ACTUAL DISTILLERS

EUCALYPTUS OILS

Cineol - B.P. ($C_{10}H_{18}O$)

Peppermint - Ketone

Sp. Gr. $\frac{0.935}{0.940}$ Ref. Ind. $\frac{1.480}{1.483}$

Opt. Rot. 0° to –1°

Phellandrene ($C_{10}H_{16}$)

and all grades Eucalyptus Oil, B.P., U.S.P., Standard & Industrial.

E. CITRIODORA
E. McARTHUARI

We are prepared to quote by cable or ex London stocks when available.

GILLARD GORDON, LTD.
SYDNEY, AUSTRALIA.

Cables: "Gumlypta Sydney."

EUCALYPTUS OIL
(RECTIFIED.)

Eucalyptol Content	70/80%
Optical Rotation	0 to 1
Specific Gravity	'919 to '928

Absolutely Free from Phellandrene.

Quotations by Cable. Wholesale Trade only.

BURNSIDE & COMPANY
Eucalyptus Oil Distillers,
VICTORIA, AUSTRALIA.

New Postal Address— 591-5 Bourke St., Melbourne. Cables—"Burnside Melbourne"

Cheapest House for

Indian Drugs, Senna Pods, Senna Leaves, Calumba Roots, Nux Vomica, Black Pepper, Folia, etc.

Sample & Price on application.

MEHTA BROS.
Head Office:
Shamset Street, Market, Bombay, India
Branches: Calcutta & Madras. Tel. Address: "Matbar Bombay."

QUININE AND SALTS

CINCHONIDINE
CINCHONINE
QUINIDINE

SUGAR-COATED QUININE TABLETS & PILLS,
GELATINE-COATED OVAL PILLS

BANDOENG QUININE FACTORIES

BANDOENG-JAVA.
Telegrams—"Kininefabriek Bandoeng."

AMSTERDAM: De Wittenkade 48/50
Telegrams—"Schalkwyk Amsterdam."

SOLE AGENTS FOR THE UNITED KINGDOM—

C. M. & C. WOODHOUSE, 30 Mincing Lane, London, E.C.3.

Telegrams—"Palmiste, Telew, London."

SAMPLES AND PRICES ON APPLICATION.

ORTHO - OXYCHINOLINE SULPHATE

"SUPEROL"

Registered Sale Name.

In Powder, Granulated and Tablets.

A MOST EFFECTIVE NON-POISONOUS ANTISEPTIC AND DISINFECTANT.

SOLE MAKERS:

Vereenigde Chemische Fabrieken

(United Chemical Works)

AMSTERDAM.

Also Manufacturers of the following—

Potassium Oxychinoline Sulphate, Neutral Sulphate of Ortho-Oxychinoline cum Sulphate of Potassium, Anaesthesine, Terpinhydrate, Terpineol, and Phosphate of Ammonia.

Write for Samples and Quotations from the Sole Agent for Chemical and Pharmaceutical Products,

K. RAYMENT, 2 Broad Street Place

LONDON, E.C. 2

Telephone: 4688 London Wall.

Cables & Telegrams: "Oleowiks, Ave, London."

FOR

QUININE & SALTS

ALSO

QUINIDINE
CINCHONINE
CINCHONIDINE
AND SALTS

AND

SUGAR-COATED QUININE TABLETS

MANUFACTURED BY

AMSTERDAM QUININE WORKS.

Wittenkade 48/50, Amsterdam.

APPLY TO

SOLE AGENTS for the UNITED KINGDOM:—

COURTIN & WARNER, 8 Harp Lane, London, E.C.3.

For samples, prices and particulars.

Telegrams: "Accourtiwa, Bilgate, London."
Telephone No.: Avenue 2220.

CHEMICAL WORKS BRUGG Ltd.

(SWITZERLAND).

Potassium orthoquinoleinsulfonate and Tablets

Albumine Tannate
Acetamidosalol
Antipyrine & Salts
Atophan Subst.
Acetol Salicylate
Benzonaphthol
Bromides
Chlorophyll
Creosote Carbonate
Chinosol Subst.
Diethyltannin
Silver Salts

Sodium Diethylbarbiturate
Quinine Ethyl Carbonate
Sodium Methylarsinate
Phenacetine
Phenazone
Pyramidon
etc.

Diethylbarbituric Acid
Ethylparamidobenzoate
Guaiacol Carbonate
Guaiacol Liquid
Guaiacol Benzoate
Hydroquinone
Hexine Citrate
Hexine Crystals
Methylsulfonal
Menthol Valerinate
Metol
Naphthol Salicylate

"CEBE"

Indol
Benzyl Alcohol
Benzyl Acetate
Benzyl Benzoate
Bromstyrol
Coumarin
Eugenol
Geraniol
Heliotropine

Pine Oil
Mustard Oil
Juniperberry Oil
Geranium Oil Artif.
Lemon Oil, terpeneless

Methyl
Anthranilate
Musk Ambrette, &c.
Neroline Crystals
Oenantic Ether
Rhodinol
Terpineol
Terpinyl Acetate
Tonkain

Acid Phenilquinoleincarbonic and Tablets

Representatives for Great Britain:

W. SUTER & CO., 12 Edmund Place, Aldersgate Street, **LONDON, E.C.1.**

Telegrams: "ELMITOLFO, CENT, LONDON."
Telephone: CITY 5792.

GOLD MEDALS: Paris 1889 and 1900.
GRAND PRIX: Turin 1911.

FERDINAND ROQUES, PARIS.

"ROQUES" ATROPINE
"ROQUES" COCAINE
"ROQUES" PILOCARPINE
"ROQUES" SPARTEINE

Manufacturer of Pure Pharmaceutical Chemicals.
ESTABLISHED 1846.
OTHER SPECIALITIES:
Refined Camphor, Iodides, Iodoform, Iodothymol, Bromides, Bromoform, Bismuth Salts.
CACODYLATES. METHYLARSENATES.

SOLE AGENTS FOR U.K.: W. Charity & Sons, 14 Harp Lane, LONDON, E.C.3.
Telephone: Avenue 4359. NO. 2
(WHOLESALE ONLY.)
Telegrams: "Charity London."
CODES: A B C and LIEBER'S.

TRADE MARK.

G. C. Starup's Danish Cheese RENNET EXTRACT

STARUP'S REAL DANISH CHEESE RENNET EXTRACT is guaranteed to be made from finest calf vells only, and does not contain Pepsin or other kind of substitute.
Chemists and Druggists, please ask for G. C. Starup's real Danish Rennet Extract, Annatto Cheese Colour and Butter Colour: also Rennet Tablets for Cheese Making. PRICES ON APPLICATION.

G. C. Starup's Chemical Works, Copenhagen, K., Denmark.

Telephones: London Wall 4391, & Bank 275.
Cable Address: "TAARINCO, LONDON."

THE EASTERN & RUSSIAN TRADING COMPANY, LIMITED,

8 Drapers' Gardens, Throgmorton Avenue, London, E.C.2.
Representatives and Agents in France, Italy, Germany, Turkey, Palestine, India, Siberia, Japan, and U.S.A.,
General Agents of I. L. GOLDBERG, Petrograd, Vilna, Odessa, Moscow, the exclusive exporter of

SANTONINE

From Russia to the whole world.
Inquiries solicited also for

RUSSIAN CRUDE DRUGS

WORMSEED (Semen Contra)
Aniseed
Elderflowers
LYCOPODIUM
ERGOT OF RYE
Boletus Cervinus
ELECAMPANE ROOT
Liquorice Root
Calamus Root
Soap Root
GUM AMMONIA
GUM GALBANUM
GUM TRAGACANTH
HENBANE LEAVES
Frangula Bark
Cantharides
Blood Albumine
ANISE OIL
Coriander Oil

STOCKS IN LONDON & AT THE PRINCIPAL AGENCIES.

OTTO MEDEM & CO.

VALENCIA.

BARCELONA, BILBAO, MALAGA, ALICANTE.

Spanish Liquorice Root, Gentian Root, Uvæ Ursi Leaves, Sage Leaves, Rosemary Leaves, Althea Root, Arnica Flowers, Flea Seed, Anise Seed, Saffron, Poppy Flowers, Lavender Flowers, Orangettes, Orange Peel, etc.

Cables: "MEDEM."
Codes: A B C (4th and 5th), Lieber's, Private.

Theobromine Sodio-Salicylate

(chemically the same as Diuretine).

Caffeine

Theobromine Pure Alkaloid

Theobromine Soda Acetate

Substitute for Agurine.

Societeit voor
Chemische Industrie Katwijk
KATWIJK-AAN-ZEE,
HOLLAND.

"PHARMACIA" BRAND.

FLUID EXTRACTS AND TINCTURES,
Standardised
ABSOLUTE ALCOHOL,
COLLODIONS,
All ex our bonded laboratories.

ROYAL PHARMACEUTICAL Co. Ltd.,
AMSTERDAM (Holland).

Agent: A. C. HENRY, 19 St. Dunstan's Hill, LONDON, E.C.3.

A. C. HENRY

19 St. Dunstan's Hill, LONDON, E.C. 3.
Telephone: Avenue 2335.

ADALIN	PROTARGOL
HELMITOL	SAJODIN
LUMINAL	TANNIGEN
MESOTAN	THEOCIN SOD. ACET.

Price List and Particulars on Application.

GIGNOUX FRÈRES & BARBEZAT,

Chemical and Pharmaceutical Products, Drugs & Herbs.

DECINES, near LYONS, France.

HYDROGEN PEROXIDE 12 vol., 20 ", 100 " } for Export.

ETHERS
CHLOROFORM
CHLORAL HYDRATE
COLLODIONS
SPIRITS—ELIXIRS—
ALCOHOLIC TINCTURES
PHARMACEUTICAL EXTRACTS
OF ALL KINDS.

Fluid Extracts for Syrups.
American Fluid Extracts.
Semi-fluid Extracts: Belladonna, Ergotine, Gentian, Valerian, Liquorice, etc.
Extracts for Wines and Aperitifs, &c.

VETERINARY EXTRACT OF MALE FERN
24/25% Filicine.
Kills the Liver Fluke & Cures Sheep & Cattle.

METALLINE
Metallic solution for capsuling vials, bottles, &c.

DRUGS & HERBS, FLOWERS, ROOTS, &c.

Arnica	Gentian
Belladonna	Fern
Black Alder	Lime
Lavender	Chamomile

Oak Moss, &c.

LONDON AGENT:
R. ANSAY, 44 Wilson St., Finsbury, E.C.2.
Telephone: London Wall 3103.

THE ANGLO-FRENCH DRUG CO., Ltd.

238a Gray's Inn Road
London, W.C.1.

Telephone: HOLBORN 1311. Telegrams: "AMPSALVAS LONDON."
NEW YORK: 1270 Broadway. MONTREAL: Dandurand Building. PARIS: Rue Clauzel. BOMBAY: P.O Box 460.
WEST-END DEPOT: MODERN PHARMACALS (Managing Director, J. G. GORDON, M.P.S.) 48 Mortimer St., W.1.
Telephone: MUSEUM 564.

PHARMACEUTICAL PREPARATIONS.

AMBRINE.
A great advance in the treatment of burns (slight or severe). Gives immediate alleviation of pain. Also for Chilblains, Ulcers, &c.

AMIBIASINE.
Compound Extract of Garcinia. Treatment of Amœbic Dysentery.

ANIODOL.
Antiseptic. Disinfectant. Deodorant for Sick Rooms, Instruments, Bed-pans, etc.

CRYOGENINE.
(LUMIERE):
A general Antipyretic Powerful Analgesic.
Supersedes ANTIPYRIN, PHENACETIN and PYRAMIDON.

CUPRASE.
Specially prepared CHEMICAL Colloidal Copper for CANCER. Has given most encouraging results in a good number of cases.

CYTO-SERUM.
Intensive Strychno-Arsenical Medication for Pulmonary Tuberculosis, Syphilis, Pernicious Anæmia, &c.

DIABETIFUGE.
A successful Anti-Diabetic. Gives most satisfactory clinical results (formula given). Administered in Cachets.

DIGITALINE Cristallisée
(Écalle). Standardised. The true active principle of Digitalis purpurea.

DOSURINE OUTFIT.
Urine Testing Case. Exceedingly compact and complete. For pocket.

ENDOCRISINES.
Organotherapy Extracts of Internal Secretory Glands prepared *in vacuo* at freezing-point.

Tested as per L.G.B. Regulations.
GALYL.
Salvarsan and Neo-Salvarsan substitute (Intravenous or Intramuscular). Effective and safe. Produces no undesirable effects.

HECTARGYRE.
A combination of Hectine with Mercury.
Intramuscular Injection; also in Pills and Drops.

HECTINE.
Anti-Syphilitic. Low Arsenic percentage. Good results in Intractable Syphilis.
Intramuscular Injection; also in Pills and Drops.

A WARNING

It having come to our knowledge that a preparation called

STANNOXYL

which is an imitation of the original article, is now on the market in England, we, as sole importers, beg to warn the trade generally that we do not hold ourselves responsible for the genuineness of the contents of any package which does not bear our name and address.

The ANGLO-FRENCH DRUG Co., Ltd.,
238a Gray's Inn Road,
LONDON, W.C.1.

PHARMACEUTICAL PREPARATIONS.

Quinine Salts are now Restricted
KINECTINE.
A Quinine Salt of Hectine. Prophylactive and Curative for Hay Fever, Rhinitis, Influenza.
In Tablets

KRAMYZARINE.
Treatment of Varicose Veins, Phlebitis, Varicose Ulcers, &c.

LATAPIE.
Reaction.
Simplified Wassermann Test, from the Pasteur Institute.

MORUBILINE.
Extract of the fresh liver of the cod. Supersedes Cod Liver Oil.

NEOCAINE-SURRENINE.
A perfect Cocaine substitute of low toxicity.
Reliable and safe.
Spinal and Local Anæsthesia.
Ointments, Gargles, Snuffs, &c.

NEVROSTHÉNINE.
Alkaline Solution of Glycerophosphates

OPOLAXYL
For Constipation. A combination of pancreatic, biliary, and intestinal secretions. A normal regulator of the intestinal functions.
Tablets.

QUINEINE.
A liquid extract from Cinchona Succirubra. Contains 5% of Quinine Alkaloid.

RHEANTINE.
(LUMIÈRE)
For the treatment of Gonorrhœa in its various stages by the internal administrations of specially prepared Gonococci. In Spherules. Rapid, effectual, harmless.

STANNOXYL SOLUTION
For Staphylococcal affections.
In 2 c.c. ampoules for Intramuscular Injection.

STANNOXYL TABLETS.
Oxide of Tin and Tin-metal free from lead. Treatment of Acne, Boils, etc.

SUKROSERUM.
Solution of Saccharose.
Intramuscular Injection for Tuberculosis.

SUPSALVS.
Stable Suppositories of "606." (French Manufacture).
Simple, effective, harmless.
Give excellent clinical results.

TRICALCINE.
Contains the pure phosphates of lime and magnesia.

URASEPTINE.
Composed of Urotropine and Helmitol.
A powerful Urinary Antiseptic, dissolves and eliminates Uric Acid

Clarke's Blood Mixture.

WHOLESALE PRICES.

3/- size Clarke's Blood Mixture **£1-7-0** per doz. **£16-4-0** per gross net.
12/- „ „ „ „ **£5-8-0** „ **£64-16-0** „ net.

Orders: Minimum Quantity £16-4-0 Value
Carriage paid upon orders of £100.

MINIMUM RETAIL SELLING PRICES 3/- and 12/-

Above prices will give a Profit of 33⅓ % on cost to the Distributors.

Sole Proprietors:

THE LINCOLN & MIDLAND COUNTIES' DRUG CO. LTD.,
PARK STREET, LINCOLN.

MACHON'S

COMFORTINE

has for Forty Years been the Best & Safest Infants' Preservative.

COMFORTINE contains no Opiates or Dangerous Drugs whatever.

During teething it is a real Baby's friend.

PREPARED BY

Machon's Comfortine Ltd.
Coalville, LEICESTER.

Fixed Minimum Price: 1/3 PER BOTTLE.

P.A.T.A. NOTICE.

113 Temple Chambers, E.C.4.

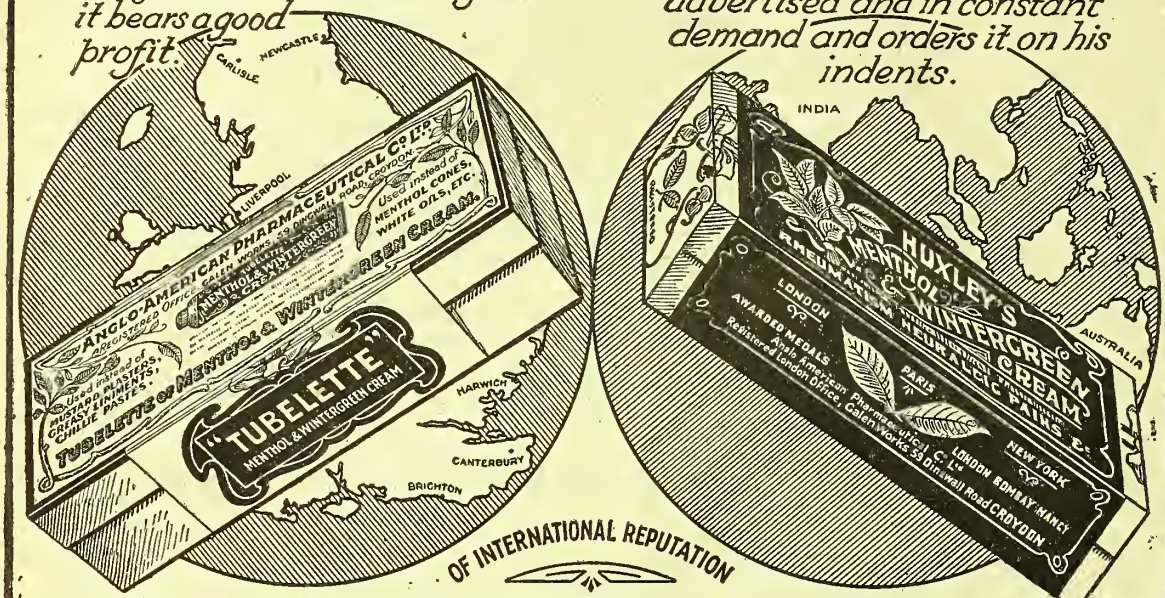
July 10, 1920.

The following revised prices are now in force:

Advertised Price.		Minimum Retail Price.	Minimum Wholesale Price doz.
1/6	"Allenburys" Rennet Essence	1/6	13/6
2/6	„ „ „	2/6	22/6
Duncan, Flockhart & Co's Preps.:			
2/3	Den-Coll Liquid (Duncan) ...	2/3	20/-
4/-	„ „ „ ...	4/-	36/-
Parke, Davis & Co's Preparations:			
1½-oz.	Cascara Evacuant	2/-	16/3
4 „	„ „	4/6	38/3
8 „	„ „	8/-	68/3
16 „	„ „	14/6	125/3
80 „	„ „ (for dispensing)	1/4 oz.	each 50/3 doz.
4 „	Hydrogen Peroxide Solution	1/6	12/2
8 „	„ „ „	2/-	16/4
16 „	„ „ „	3/3	28/2
	Capsolin (Tubes)	1/9	14/-
	„ (Tins containing 1 lb. for dispensing) ...	10½d. oz.	9/- lb.

THE BRITISH DRUGGIST
is familiar with this package, knows it is in regular demand, wisely stocks it and is satisfied it bears a good profit.

THE DRUGGIST OF INDIA, BURMAH, CEYLON, CAPE COLONY, AUSTRALIA & NEW ZEALAND
knows this package and sees it advertised and in constant demand and orders it on his indents.



OF INTERNATIONAL REPUTATION

ANGLO-AMERICAN PHARMACEUTICAL COMPANY LTD.,
GALEN WORKS,
DINGWALL ROAD, CROYDON *(LONDON).*

WHAT OTHERS SAY OF

PHILIP'S "STANDARD" RETAIL PRICE LIST.

(1) There is no question about your list being the best for our or any other town, but it will take something in the nature of an earthquake to wake up some of our members. I am afraid if some of them had a call from the angels they would be too tired to respond, or if they did, they would only arrive in time to be locked out.

(2) The idea is excellent and saves us a deal of calculations.

(3) Your list is wonderful, I thought the——a good list, but yours licks it hollow.

(4) The BEST I have yet seen.

(5) I have great pleasure in remitting ——. I have found it a great money saver in the past, instructive and simple.

(6) ..... your most excellent and helpful list.

(7) I am sure we have been great gainers and would not be without it.

(8) What I wish to do is to congratulate you on the production of so very useful an article of reference. It is the best I have met with, handy, detailed and embracing.

Annual Subscription 5/- post free. **Specimen Copy 1/-.**

From the Publisher:

CHARLES PHILIP, Pharmacist, 258 Pitsmoor Road, Sheffield.

ÉTABLISSEMENTS CHATELAIN,

2 & 2 bis RUE DE VALENCIENNES, PARIS.

Sole Manufacturers of

JUBOL

RE-EDUCATION OF THE INTESTINE.

Constipation, Enteritis, Hæmorrhoids, Indigestion, Skin Blemishes, &c.

Price **5/-** per box.

GLOBÉOL

POWERFUL BLOOD TONIC.

Anæmia, Nervous Exhaustion, General Debility, Tuberculosis Convalescence, etc.

Price **5/-** per bottle.

PAGÉOL

POWERFUL URINARY ANTISEPTIC.

Cystitis, Prostatitis, Catarrh of the Bladder, Renal Tuberculosis, etc. etc.

Price **5/-** and **11/-** per box.

JUBOLITOIRES

SCIENTIFIC SUPPOSITORIES

For Hæmorrhoids, Rectitis, Anal Fistula, etc. Anti-hæmorrhagic, Sedative, De-congesting.

Price **5/-** per box.

URODONAL

POWERFUL URIC ACID SOLVENT.

Rheumatism, Gout, Arterio-sclerosis, Stones, Gravel, Sciatica, Neuralgia and all Uric Acid disorders.

Price **12/-** per bottle.

VAMIANINE

New Scientific Preparation for Chronic Skin Affections, Psoriasis, Eczema, Acne, etc.

Price **11/-** per bottle.

SINUBÉRASE

SCIENTIFIC PREPARATION OF LACTIC FERMENTS.

Indicated in Intestinal Disorders, Dysentery, Diarrhœa, Dyspepsia, Enteritis, Typhoid, Skin Eruptions, etc., etc.

Price **5/-** per bottle.

FANDORINE

Metrorrhagia, Dysmenorrhœa and Lactation, Pains, etc. etc.

Price **5/-** and **11/-** per bottle.

GYRALDOSE.

Antiseptic for local Gynæcological use.

Price **4/-** per box (powder)
" **5/-** " (tablets)

FILUDINE

SPECIFIC FOR THE LIVER.

Malaria, Diabetes, Cirrhosis, Sluggish Liver, Tuberculosis, etc.

Price **11/-** per bottle.

SOLE BRITISH AGENTS—

Heppells **Pharmacists & Foreign Chemists, 164 Piccadilly, LONDON, W.1.**

Telegrams: "URODONAL LONDON." Telephone: Regent 192.

Stocked by all Wholesalers. *Now being largely advertised.*

33⅓ % ON COST

SEQUARINE

Because Sequarine is the embodiment of a great scientist's discoveries.

Because anxious sufferers in thousands are seeking real relief from the dangers of Neurasthenia and nervous disorders generally.

Because Sequarine is given consistent and effective publicity.

For these reasons the supply of Sequarine has for some time been behind the great demand. But full supplies are now assured, and all should make sure ample stocks are on hand. A new publicity campaign is about to be launched.

P.A.T.A. Prices:	Retail	Wholesale
Sequarine (Liquid)...	5/-	... 45/- doz.
" Tablets ...	3/-	... 27/- "
" " ...	1/3	... 12/- "

Special terms to retailers: 5% discount on 3 doz lots.

SEQUARINE, LTD., Albion House, 59-61 New Oxford St., London, W.C.1

CAN SUPPLY FROM STOCK

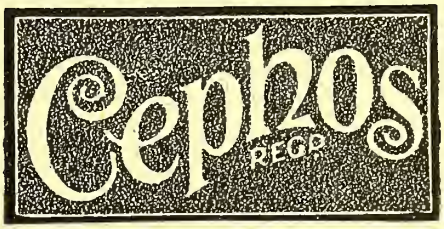
"SEPTAX"

Check Sponge Bags
Oiled Silk " "
Cell Toothbrushes
Ebony Military Hair-brushes

Ladies' Ebony Hair-brushes
Nailbrushes

Speciality:
Handkerchief Puffs

A. R. ANDREW, *Manufacturer and Export Agent,*
6 LOVE LANE WOOD STREET, E.C.2



For NEURALGIA, HEADACHE, RHEUMATISM and INFLUENZA.

Write for wholesale terms to

CEPHOS LTD., Blackburn, Lancs.

SOAPS Sphagnol AND OINTMENT

Used regularly in Hospitals and prescribed for the treatment of ECZEMA, SCABIES, INSECT BITES, ACNE, HÆMORRHOIDS and Skin Troubles.

WE OFFER LIBERAL TERMS TO ALL CHEMISTS

Sphagnol is well advertised in the Medical and Nursing Press, and is in REGULAR DEMAND

Send your name and address and we will refer local inquiries to you and by return will let you have samples and particulars.

PEAT PRODUCTS (SPHAGNOL), LTD.

19c Queenhithe, Upper Thames Street, London, E.C. 4.

A. ROWLAND & SONS

Proprietors of

ROWLAND'S MACASSAR OIL KALYDOR *and* ODONTO

beg to give notice that their offices and warehouse are now at

112 GUILFORD STREET, GRAY'S INN ROAD, W.C.1.

Rowland's Macassar Oil, being now on the P.A.T.A. list, is well worth the attention of the Wholesale and Retail Trade, as it shows a fair margin of profit to all alike.

R. T. DUN THE ORIGINAL MAKER

invites inquiries for all kinds and quantities of

Hand-Made Gelatine Capsules

FOR HOME OR EXPORT
Sandal Oil Capsules a Speciality

5 OSWALD ST., GLASGOW

Sponges Cleaned While You Wait.

"SEPTAX" TOILET SPONGE CLEANSER

Absolutely Reliable. British Made.

In Boxes - - 9/- per dozen
Retail - - 1/- per box

Enough Powder in each box to clean 3 ordinary Sponges.

British Depôt:
A. R. ANDREW, 6 LOVE LANE, WOOD ST., E.C. 2

TELEGRAPHIC ADDRESS: "INFANTHOOD, CENT. LONDON."

TELEPHONE No 6778 CENTRAL.

HOOD'S MEDICINE LABORATORY

WHERE HEALTH IS MADE

For the Blood, Stomach, Liver and Kidneys.

HOOD'S MEDICINE.

HOOD'S VEGETABLE PILLS.
HOOD'S OLIVE OINTMENT.
HOOD'S MEDICATED SOAP.
ETC. ETC. ETC.

Proprietors: C. I. HOOD & Co LTD.

IT'S MADE by HOOD IT'S GOOD

"Cecil House," Holborn Viaduct,
LONDON, E.C. 1.

The people who are buying Hood's Medicine or Hood's Medicine Tablets to-day include those, and the recommendation of those, who first purchased Hood's Medicine more than twenty years ago.

All our lines can now be easily procured in the usual way. Your profit is assured. See page 109 in Special Summer Issue.

C. I. HOOD & CO., Ltd., Cecil House, Holborn Viaduct, LONDON, E.C. 1.

BEECHAM'S PILLS

WHOLESALE PRICES.

Beecham's Pills:

1s. 3d. size	**10s. 6d.**	per doz. net.
3s. 0d. „	**26s. 6d.**	„ „
5s. 0d { new size ... ... contains double the quantity of 3/- box.	**50s. 0d.**	„ „

Beecham's Cough Pills:

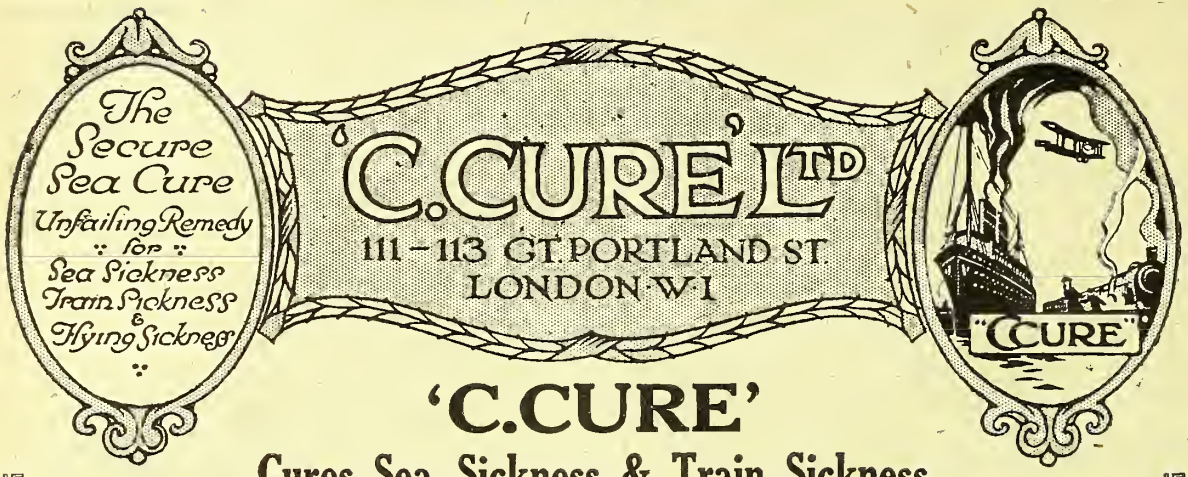
1s. 3d. size	**10s. 6d.**	„ „
3s. 0d. „	**26s. 6d.**	„ „

Orders: Minimum quantity £5 value—approximately. | ***Packages FREE. Carriage PAID.***

These Prices are the lowest no matter what quantity is ordered.

TERMS: CASH WITH ORDER.

Cheques to be made payable to **THOMAS BEECHAM**, and crossed "Parr's Bank, Ld., St. Helens."



'C.CURE'

Cures Sea Sickness & Train Sickness

MANUFACTURED WHOLLY IN GREAT BRITAIN OF BRITISH INGREDIENTS.

PROTECTED PRICES OF 'C.CURE' packed in aluminium boxes enclosed in decorated cartons.

LARGE SIZE, **8/-** per box. Contains capsules for Four Journeys.
SMALL SIZE, **4/-** per box. Contains capsules for Two Journeys.
Each box contains twice the value of any other sea-sickness remedy.

DISCOUNTS TO CHEMISTS
- **25 % Discount** ... For quantities up to Six Dozen.
- **25 % & 10 %** ... For quantities over Six Dozen and under Twelve Dozen.
- **25 % & 15 %** ... For quantities over Twelve Dozen.
- Special Extra Cash Discount 2½ %.

All accounts must be paid on 20th of month following date of invoice.

Correspondence invited from Wholesale and Retail Chemists in every part of the World. Correspondence in all languages. Apply to above address.

Telephone : 4510 MAYFAIR. Telegrams : "CECURICO, WESDO, LONDON."

Give the Drummer the Lead

—display him prominently on the counter or in the window. He's leading hundreds of business men to success and he'll lead you, too. Never heard of the Drummer ? He's the little chap who is teaching thousands of English women the art of making old faded hangings and clothes like new by a simple operation of home dyeing.

An extensive advertising scheme has been prepared for 1920, and advertisements will appear in all leading weekly and monthly publications. Take advantage of this publicity campaign by displaying Drummer Dyes prominently. Let your customers see that *you* are one of the many shopkeepers who realise the economy and necessity of

Drummer Dyes

A parcel of attractive advertising matter and full trade particulars will be sent to those who wish to further increase their business.

Wm. Edge & Sons, Ltd., Bolton

T. 10

NEW PRICES OF

Increased cost of manufacture compels a rise in the prices of "New-Skin" as follows :

	Retail Prices		Trade Prices
Pocket Size	10½*d.*	Corresponding Increase in Trade Prices	8/5
Medium ,,	2/-		19/2
Physician's ,,	3/-		28/9½

£3 and upwards Carriage Paid.

MODERATE STOCKS ARE NOW IN HAND.

Order through your Wholesaler, or direct—

J. E. GARRATT,

96 SOUTHWARK STREET, LONDON, S.E.1.

TWO SIZES ONLY.

DR. J. COLLIS BROWNE'S CHLORODYNE

Prices and Terms:

TRADE:

Minimum Retail Price	1/3	3/-
Price (*per dozen*)	12/3	30/6

Discount 5 per cent. on £1 worth, 7½ per cent. on £5 worth and upwards.

Packages charged at cost, and are not returnable. Carriage forward.

Terms: Cash with order. Most Wholesale Houses supply on equal terms, so please order with your other goods.

Dr. J. Collis Browne's Chlorodyne

is on P.A.T.A. Protected List, & must not be sold below the prices named above.

J. T. DAVENPORT, Ltd. Proprietors,
117 Union Street, London, S.E.1

Antiphlogistine

TRADE MARK

25% PROFIT

(P.A.T.A.)

Additional 5% on £2 : 0 : 0 orders, CARRIAGE PAID, cash with order, from your wholesale house or direct from the

SOLE BRITISH AGENT: **J. F. MURPHY,**

41 ST. ANN'S ROAD - - LONDON, E. 3.

FUMO-TARACINE

REGISTERED TRADE MARK.

RETAIL SELLING PRICES.

2-oz. Bottle 1/1½. 4-oz. Bottle 2/-. 16-oz. Bottle 6/-.
(Including FREE VAPORISER.)

THE BRITISH VAPORIFIC MEDICINAL PREPARATION.

Recommended by the Medical Profession for the treatment of

ASTHMA	BRONCHITIS
WHOOPING COUGH	PNEUMONIA
SPASMODIC CROUP	SCARLET FEVER
CATARRH	MEASLES and
SORE THROAT	INFLUENZA

THE COAL BY-PRODUCTS CO.

(Proprietors: Preston, Hull & Co., Ltd.)

112 High Holborn, LONDON, W.C.1.

IF

you take Quality and Service into consideration you will find we fulfil all that is expected. We specialize in . . . .

CHEMISTS'

LABELS and CARTONS.
Our Prices bear comparison with any competitive house.

Thomas Waide & Sons

Chemists' Printers

Leeds

We send full set of Samples for 10/6, and credit if orders are given for £10 and upwards.

COMPOUND SULPHUR TABLETS

Containing Sulphur B.P., Cream of Tartar, Refined Sugar, Orange Flavoured, Guaranteed Pure.

Packed in 7-lb. Counter Boxes **2/2** per lb.

BISMUTHATED MAGNESIA TABLETS

Antacid and Refrigerant

Packed in 7-lb. Counter Boxes **3/-** per lb.

"DETERGOL"

An Ideal Antiseptic Deodorant

No. 1 - 7/6 per gallon. DISINFECTANT

Contains 20% more Cresol than any other similar preparation. Surgical Instruments can be safely sterilised and disinfected in a few seconds without danger of corroding by using "**Detergol.**" Used by the Medical Profession for fourteen years.

"DETERGOL" No. 2 - - 4/6 per gallon.

For ordinary disinfecting purposes, miscible in water.

Carriage Paid on orders of £5 and upwards in the U.K.

TABLETS, PILLS, etc., and CHEMICAL AND MEDICINAL PREPARATIONS of all descriptions

Manufactured by

HOUGH, HOSEASON & CO., LTD.

Wholesale Manufacturing Chemists - MANCHESTER.

Petroleum Jelly

White, Yellow, Amber, & Ruby Red, for all Pharmaceutical and Veterinary purposes

MEADE-KING, ROBINSON & CO., LTD.
LIVERPOOL - MANCHESTER - LEEDS.

Salvo Petrolia

the perfection of Petroleum Jelly

in qualities, white, lemon, yellow and golden, for pharmaceutical purposes.

MANUFACTURED SOLELY BY

The Dee Oil Company, Ltd.

Delta Works . Bootle . Liverpool.

Packed in barrels, kegs and smaller packages according to requirements.

Inquiries are solicited for this article of **British Manufacture**, and buyers may rely that for quality and price, it will meet any competition.

Other Grades

Petroleum Jellies, White Bases, &c.

Samples and prices on application.

"OLEUM DEELINÆ," a certain cure for Eczema.

Phone: 186 Bootle. Wires "Cestrian Liverpool."

WOOL GREASE ALL GRADES.

K. MALMBERG,
110 Cannon Street,
LONDON, E.C.4.
AND AT NEW YORK.

Telegraphic Address: "Obtempero, Cannon, London."

Telephone No.: City 6321.

Petroleum Jelly

K. MALMBERG

110 Cannon St., London, E.C.4.

AND AT NEW YORK.

Telegrams: "Obtempero, Cannon, London." Telephone: City 6321.

Liquid Paraffin

B.P. 1914

"STERNS" B.P. Grade is guaranteed to be the finest quality of Liquid Paraffin produced. It has the patronage of the largest wholesalers, the recommendation of the medical profession, and is used in the principal hospitals in preference to all other kinds.

STERNS LTD.,

ROYAL LONDON HOUSE, FINSBURY SQUARE, E.C.

PETROLEUM JELLY

ALL GRADES.

GUMS. WAXES. DEXTRINE.

W. M. Kidston & Co., 43/45 Great Tower St., London, E.C. 3.

Telegrams: "KIDSTONISM, BILGATE, LONDON." Telephone: AVENUE 8057.

METHYLATED SPIRIT

OILS AND CHEMICALS

Buy from one of the oldest houses in the trade.
Write for Prices. *Established 1794.*

SAMUEL THORNLEY, Ltd., Birmingham.

ADEPS LANÆ, P.B.

THE FINEST BRITISH LANOLINE PRODUCED
IS MANUFACTURED BY

THE PHARMACEUTICAL LANOLINE CO.

Carnwath Road, Fulham, London, S.W.
WHO INVITE INQUIRIES.

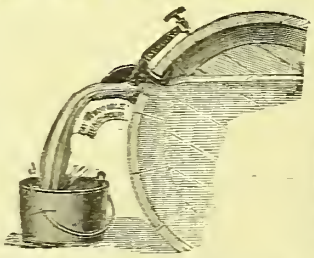
TECHNICAL AND MEDICINAL WHITE OILS.
PETROLEUM JELLIES.
PARAFFIN WAXES.
NEUTRAL OILS,
Debloomed and Undebloomed.
PALE & RED LUBRICATING OILS
CYLINDER OILS.

W. J. SMITH, *SOLE EUROPEAN REPRESENTATIVE,*
THE JAMES B. BERRY'S SONS CO. Inc.
110 Cannon Street, London, E.C.4.

Wells' Removable Bung Pour
(PATENTED).

For emptying Casks without Pump, Tap or Siphon. Applied to and removed from any cask instantly. All waste and mess prevented. More rapid in action than a pump. Will fit any ordinary cask from 20 to 50 gallons.

Does not damage the cask.



A. C. WELLS & CO. 90 Midland Road, St. Pancras, N.W.1 LONDON.

ADEPS LANÆ
B.P.
"ULTRAVI" Brand.
The Latest & Best.

— *Inquiries Invited.* —

THE
C.V.O. Chemical Works,
LIMITED,
Petersham Road,
RICHMOND (SURREY).

PURE
OLIVE OIL
OLIVE OIL
(GENUINE CASTILE)
SOAP

LEON FRENKEL,
10 Lime Street, LONDON, E.C.3.

OLIVE OIL

The position is very acute, and it is almost impossible to obtain further shipments. Buy your requirements of Edible Oil before :: :: the season commences. :: ::

FINEST FRENCH. The best quality on the market.

FINEST SPANISH. Cream Edible.

We can also supply very advantageously :

ESSENTIAL OILS (all descriptions) **CASTOR OIL**
CREAM OF TARTAR, 99/100 B.P. **SARSAPARILLA**
LIQUORICE BLOCK AND STICKS **HYDRASTIS**

CASTILE SOAP WHITE MOTTLED

ETC. ETC.

LOWEST PRICES. HIGHEST QUALITY.
STRICTLY WHOLESALE. SAMPLES, PRICES AND FULL PARTICULARS ON APPLICATION.

F. CHIESMAN & CO.,

59 ST. MARY AXE - LONDON, E.C.3.

Telegraphic Address : "PALUSTRIS, LED, LONDON."
Telephones : - AVENUE 63 (2 lines), 6994.

AND AT LIVERPOOL, GLASGOW, BRISTOL, ETC.

CARVER'S TONIC SALTS

A COMBINED NERVE TONIC AND BLOOD PURIFIER.

Gives Renewed Health :: and Vigour. ::

Attractively packed.
Shows 50 % Profit to you.

Price in gross lots, per **100/-** gross.
Carriage Paid.
Less Special Stocking Bonus of 5 %

A scientifically prepared Effervescing Saline, possessing medicinal properties superior to the ordinary Health Salts

A FREE TIN

will be sent for your personal trial on receipt of application on letter heading.

Sole Proprietors— 4 oz. Size Retailed at 1/-

JOHN CRAMPTON & CO. LTD. DEANSGATE, MANCHESTER.

BURROW'S MALVERN WATERS

(Bottled only at St. Ann's Well, Malvern)
BRITISH and BEST of TABLE WATERS.

BURROW'S MALVERN WATER (still). The Purest Natural Spring Water.

BURROW'S MALVERN WATER (sparkling). The Natural Water simply Aerated.

"Malvernia" (Regd) "MOLLY"

An Alkaline Sparkling Table Water, invaluable in cases of Gout, Rheumatism, Acidity, Stone, Gravel & Kidney Complaints.

Mixes well with Wines and Spirits.

BURROW'S GINGER ALE, LEMONADE, GINGER BEER, prepared with the MALVERN Water, and only the purest and most reliable ingredients are employed.

Price List and all particulars may be had upon application to:—W. & J. BURROW, LTD., THE SPRINGS, MALVERN; or from the Sales Management 26 LONDON STREET, PADDINGTON, LONDON, W. Telephone: Padd. 1810.

Distributing Centres:
London, Liverpool, Brighton, Southampton, Newcastle, Leeds.

LOSALL'S SALT

SELLS FREELY & READILY
PAYS 50% ON OUTLAY

An Infallible Remedy for
GOUT, RHEUMATISM, ECZEMA, and SKIN AFFECTIONS.

	P.A.T.A.	Doz.	
4 oz. Tins	1/-	8/-	net
8 oz. Tins	1/10	15/-	„
Bottles	2/6	20/-	„

The only line of its kind on the market.

SOLD EVERYWHERE.

Manufactured by
LOFTHOUSE & SALTMER, Ltd., HULL

BISHOP'S
Natural Fruit Saline.

THE BEST SELLER.

This preparation, our latest Saline, made by our special process, without **Sugar** or **Saccharine**, is a unique Saline. It is strongly effervescent and delightfully palatable, making a bright, refreshing draught which acts as a mild but very thorough aperient, anti-acid and liver stimulant.

Bishop's Natural Fruit Saline is taken regularly with pleasure and safety by men, women and children all the year round. This steady demand makes it a profitable winter line. It keeps perfectly in all climates.

The Wholesale price is **20**/- per doz. On £5 lots, discount **10**%, and carriage paid.
The P.A.T.A. Retail Price is **2/3** per bottle.
This ensures a profit of **9d.** per bottle to the chemist.

Prepared only by

ALFRED BISHOP, LIMITED, 48 Spelman Street, LONDON, E. 1.

Kkovah Health Salt

The Customers are at your door. Won't you ask them to come in?

Kkovah Health Salt is an old-established family aperient, the demand for which is rapidly increasing month by month.

By stocking and displaying a few tins on your counter and in your window you secure a trade which would otherwise go to the other man.

Isn't it worth while taking the extra profit, which calls for no effort on your part?

Prices and Terms for the asking.

SUTCLIFFE & BINGHAM,
Limited,
MANCHESTER.

Makes You Fit—
Keeps You Fit.

Thousands of People are Daily Taking

RETAILS 3/6 WIDELY ADVERTISED

FROM ALL WHOLESALERS

Are you Selling It to Them?

For particulars of the liberal Trade Terms write to S. Kutnow & Co., Ltd., The Kutnow Laboratories, 41 Farringdon Road, London, E.C. 1.

Sells readily ALL the time.

COLEMAN & CO., Wincarnis Works, NORWICH.

IMPORTANT NOTE TO CHEMISTS WITHOUT LICENCES

It has been established by law that Registered Chemists may sell "Wincarnis with Quinine" *without* a licence.

Have you a WINE LICENCE?

If not, you should take steps to procure one, and we will pay the cost.

If you already have a licence we undertake to pay the annual charge.

The only conditions are—

1. *That you agree to give full display to Dr. Hale's Vin-Sanguis in your premises all the year round.*
2. *That you give us an agreed initial order.*
3. *That you keep Dr. Hale's Vin-Sanguis always in stock.*

Advertising Matter and Doctors' Samples free.

Trans-Continental Agencies, Limited

Proprietors of Dr. Hale's Vin-Sanguis.

14 Southampton Street, Strand, London, W.C. 2.

VITMAR

The Medical Profession are recommending VITMAR for delicate children and Invalids.

If you do not yet stock it your wholesaler will supply you.

Manufacturers:

CALLARD & Co.

Food Specialists,

74 REGENT ST., LONDON, W.1

Extract of Malt

and

Cod Liver Oil

IN BULK, JARS OR TINS.

Prices on application.

THE

BRITISH DIAMALT CO.

BISHOP'S STORTFORD.

Proprietors { H. A. & D. D. TAYLOR
H. D. & C. T. TAYLOR

EVERY CHEMIST

Should be able to supply what the Doctor recommends.

CAN YOU?

ENERGEN DIABETIC FOODS are prescribed by the leading Specialists.

ENERGEN FOODS carry a good profit to the Chemist.

Inquiries Invited.

THERAPEUTIC FOODS CO.,

Energen Works, 19c Roundwood Road, WILLESDEN, N.W.

Non-Freezing, Norwegian

COD LIVER OIL

Highest Quality Delivered by

Alliance Export and Import Co. Ltd.

CHRISTIANIA - - NORWAY.

PURE ORANGE WINE

A. MILLAR & CO., LTD., DUBLIN

VINUM AURANTII B.P.) Prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only)

London Agent: JAMES STIRTON, 43 GREAT TOWER STREET, E.C.3.

TO USERS and DEALERS in METH. SPIRIT and SPIRIT OF WINE.

FOR QUOTATIONS apply to—

PRESTON'S LIVERPOOL DISTILLERY Co. Ld.

The Largest Makers in the United Kingdom

BANKHALL DISTILLERY, SANDHILLS, LIVERPOOL. Office: 4 India B'ngs, Water St, Liverpool.

FLOROZON

Disinfecting and Deodorising

SPRAYERS

IN CONJUNCTION WITH THE

FLOROZON ESSENCE

ARE A SAFEGUARD AGAINST ALL

DISEASES and INFECTIONS

For use in Hospitals, Nursing Homes, Private Dwellings, Public Institutions, and everywhere where large numbers of people assemble, Railway Stations, etc. etc.

ILLUSTRATED PAMPHLET AND PRICES ON APPLICATION.

Sample of the Essence on request to the Sole Manufacturers—

HERTZ & CO.

ESTABLISHED 1878.

OFFICES— **9 MINCING LANE E.C. 3.**

Warehouses, Factory & Laboratory— **20 BEVIS MARKS, E.C. 3.**

Telephone: 10607 CENTRAL. Telegrams: "FRESHNESS, FEN, LONDON."

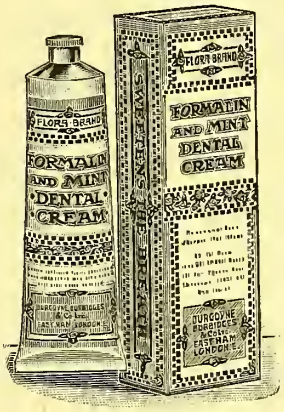
Code: A B C (5th Edition), and Private Code.

SCIENTIA DILIGENTIA

BURGOYNE'S
TOILET PREPARATIONS
(*FLORA SERIES*).

ARTISTIC.
ATTRACTIVE.
EFFECTIVE.

IDEAL for
WINDOW
DISPLAY.



WRITE FOR PRICES.

Burgoyne, Burbidges & Co., Limited,
EAST HAM - - - LONDON, E.

Telegrams: "ZOTALENE, PHONE, LONDON."
Telephone: EAST HAM 686 (Four Lines).

The Finest Quality Aerated Waters are made only with the Finest Quality

ESSENCES

BOAKE ROBERTS'

Soluble Essences are of the finest quality and being extremely concentrated are most economical

Lemon	Ginger Ale
Orange	Stone Ginger (Cloudy
Ginger	Clear Ginger Beer
Raspberry	Kola Champagne
Strawberry	Lime Juice and Soda
Pineapple	Lemon Squash Vanilla

A. Boake, Roberts & Co. Ltd.
Stratford, London, E.15.

"TOWER"
EARTHENWARE FILTERS

Sizes from 1 Gallon to 10 Gallons.

Specially suitable for

ACIDS, ESSENCES, AND PHARMACEUTICAL PREPARATIONS.

"FARJAK" ASBESTOS FILTERING MEDIUMS

for use with the above—Pure and Neutral.

Filling, Corking, and Capsuling Machines.

FARROW & JACKSON, LTD.
ESTABLISHED 1798.
16 Great Tower St., LONDON, E.C. 3.

WE MAKE IN ENGLAND

GLASS BOTTLES

ESTABLISHED 1880.

TRADE MARK

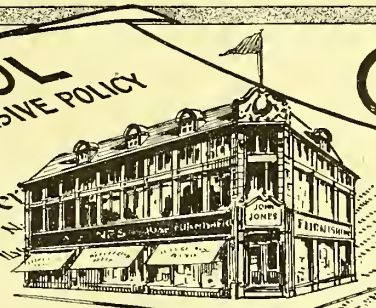
WE import from our special works in France and Belgium all kinds suitable for Chemists, Perfumers, Essence Manufacturers and all kindred trades. We are in a position to give prompt deliveries of reasonable quantities in a reasonable time. Prices on application.

STOCKS OF VARIOUS SHAPES & SIZES.

A. Ruch & Co., Ltd.
Geo. G. Forsyth,
28 MARTIN LANE, CANNON STREET, LONDON, E.C. 4.
Telegrams—"Sennock, Cannon, London."
Telephone—Central 4799.

POOL
COMPREHENSIVE POLICY

ONE POLICY PREMIUM RENEWAL



ANNUAL BONUSES

This One Policy will carry all the risks at your Business

Write for particulars to-day

THE POOL COMPREHENSIVE SHOPKEEPER'S POLICY covers you against—Fire, Burglary, Workmen's Compensation, Plate Glass, Public Liability, Third Party Drivers, Loss of Profits, Loss of Rent, Riot and Civil Commotion, Bursting of Water Pipes, Storm, Flood and Tempest.

Send for fully explanatory folder and proposal form to.—

THE LICENSES GENERAL INSURANCE CO., LTD., VICTORIA EMBANKMENT, Next TEMPLE STATION, W. C. 2.

FUNDS EXCEED £500,000. FOUNDED 1890

ANNUAL BONUSES

FREDK. FINK & CO.,
10 & 11 MINCING LANE, LONDON, E.C.
SPECIALITIES.—Gums Arabic and Tragacanth as imported or finely powdered.

PRECIPITATED CHALK
Lightest and Whitest, also Purest Dense
Aug. Levermore & Co., Ltd. 8-10 Gt. St. Helens, LONDON, E.C. 3.
Telegrams: "Levermore London." Telephone: Central 4613

SHADEINE
FOR COLOURING GREY HAIR
This popular article is largely advertised and stocked by all Wholesale Houses.
Trial size 8d., per post 10½d. Medium, 1/4, per post 1/7; Large, 3/6, per post 4/-
8d. size 6/- doz.; 1/4 size 12/- doz. 3/6 size, 33/- doz.
THE SHADEINE CO., 58 WESTBOURNE GROVE, LONDON, W.

CACHETS "FINOT"
(White or Coloured),
With Inscriptions in any desired tint: also Plain or Embossed.
"A distinction all their own."—*C. & D*
"Perfection of Cachets."—*Lancet.*
These Cachets are especially adapted for Headache, Neuralgia and other powders.
COOPER, SON & CO., Ltd., 80 Gloucester Road, SOUTH KENSINGTON.
In 17 Sizes, to fit the various types of Cachet Machines

MOTHER WILL BUY IF SHE SEES IT.
of course she will. What mother doesn't always like her kiddies to look their best in health and appearance.
ANTHONY LEIGHTON
BEST SHAMPOO FOR CHILDREN
Keeps little heads beautiful and parasite free. Always advertised for you too. Non-poisonous.
LET US SEND YOU AT ONCE.
One 6 doz self-selling carton and 1 doz. Bonus with carrier bags, wrappers, show bills, cards &c. [It won't be your first order!]
4- PER DOZ. 43% PATA. 6D EACH.
LEIGHTON LABORATORIES 35 GRAYS INN ROAD, W.C.1

HAVE YOU TRIED OUT OUR OFFER?
of 6 dozen and 1 dozen 6d. packets, along with full advertising matter for window? Carriage Paid to your address. Sales are immediate direct.
4/- PER DOZ. P.A.T.A. 6D PER PACKET.
Quin-Quenna (BETTER THAN A SHAMPOO)
is shown because it is the subject of a big and clever campaign embracing all best media.
43%
CHRISTY'S Old Swan Lane, London, E.C.4.

BESORBON
(*Dr. Hill's Formula*)
MEDICINAL SNUFF. ABSOLUTELY THE FINEST REMEDY FOR CATARRH & COLD IN THE HEAD.
Richard Dickeson & Co., (*Incorporated with Reynolds, Sons & Co., Ltd.*) 57-59 CHARTERHOUSE STREET, LONDON, E.C. 1.

Real Good Lines

Pumisope "The Hand Cleaner."

Dry Cloth-cleaning Balls
(All Colours)

Precipitated Chalk
(Powder)

Prepared Chalk
(Powder and Cones)

Fancy Boot-top Cleaning Balls
(All Colours)

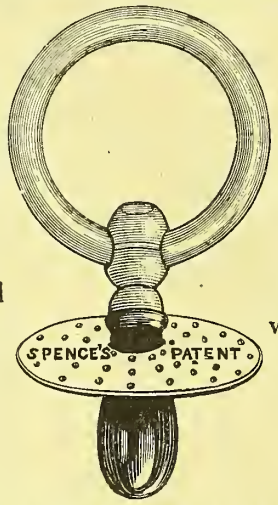
Magnesia, Rouge, &c.

H. H. HANCOCK Regd. No. 266037 LONDON

HANCOCK'S, LTD.
"The Factory," OLD BATTERSEA, S.W.11.
WHOLESALE: Write for QUOTATIONS.

SPENCE'S SOOTHERS

This is a Speciality of ours—Best Quality Well-Fitted and Attractively Carded.



Stocked in 78 Varieties. All Good Selling Lines and well-known to the Public.

A complete set of Samples can be sent upon receipt of Postal Order value £1.7s. 6d., OR a good selection for 10/6, carriage paid.
(Money returned in full if not satisfied.)

Representative can call in London and Suburbs with Samples, upon receipt of Post Card.

H. B. SPENCE, 44 THORNE ROAD, SOUTH LAMBETH, S.W.8
Telephone: Brixton 1772.

STIC GUM SURGICAL INSTRUMENTS.

Catheters and Bougies, in Black or Brown Gum, and Finest Silk Web. Specula, Rectal and Œsophageal Instruments, Horse Catheters and Cattle Probangs. Wholesale and Export only. *Price List from the Manufacturers.*

MASON BROS. & CHAPMAN, 107 Whitecross St., LONDON, E.C.1.

Mend-a-Tear

Realise straight away that, if you are not stocking "Mend a-Tear," you are doing yourself consistent harm. Each shilling carton of "Mend-a-Tear" carries an excellent proportion of profit *and saves the customer much time and money.* When selling it, you make money and create goodwill.

LEICESTER RUBBER Co. Ltd.
18 Granby Mills, Leicester.

Best British Make.
The
Kenley Seamless Rubber Works

Teats, Soothers, Finger-Cots, and every description of Surgical Rubber Goods.

Inquiries invited. Samples submitted.
Wholesale and Export.

W. G. WOOLACOTT, 76 Lower Road, KENLEY : Surrey.

RUBBER GOODS ALL KINDS
TEATS ENEMAS &c.
THE LONDON RUBBER CO.
183 ALDERSGATE STREET LONDON E.C.1.
PHONE CITY 8246 TELEGRAMS ORUBELARCO PHONE LONDON

For GUARANTEED
ATOMIZERS and SPRAYS
THE DEVILBISS CO., LIMITED,
71 NEWMAN STREET, LONDON, W.1.

The Brand "Ingram's London" is a Guarantee of Quality.

The India Rubber Hot Water Bottle with a reputation for Reliability, Perfect Construction, and Adaptability to all Conditions.

INGRAM'S

"Eclipse" REGD

HOT WATER BOTTLE

Fitted with a *Washer* that cannot be lost, and made with a Neck that cannot *Leak*.

Obtainable through all Wholesale Houses.

SHOWCARDS FOR CHEMISTS.

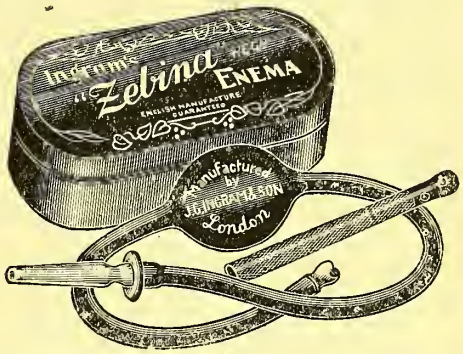
A supply of neat Showcards for window or shelf display, $6\frac{3}{4}''$ by $5\frac{1}{2}''$, will be sent on application.

INGRAM'S

BRITISH-MADE

Seamless ENEMAS

THE "ZEBINA" ENEMA (Regd.)



Guaranteed Not to Split (Ordinary Bulb).

Practical Workmanship. Perfect Construction. Fitted Complete with Bone Rectum and Gum Vagina Pipe and Leather Shield, and packed in an attractive Card Box.

THE "PERFEX" ENEMA (Regd.)

A Reliable Quality Seamless Enema (Ordinary Bulb).

Perfectly Safe. Perfectly Hygienic. Fitted Complete with Bone Rectum and Vagina Pipe and Leather Shield, and packed in an attractive Card Box.

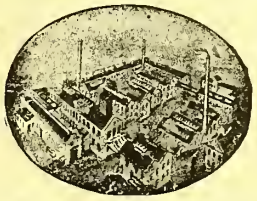
J. G. INGRAM & SON, LTD.

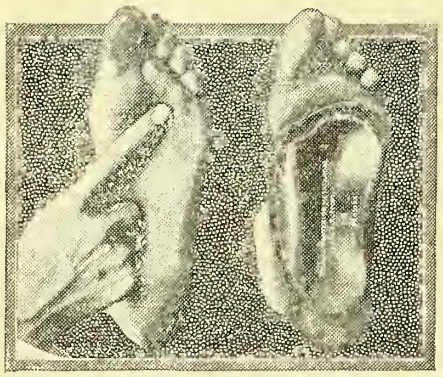
THE LONDON INDIA RUBBER WORKS,

Established 1847

Telephone: 1406 East,

HACKNEY WICK, E. 9. LONDON, ENGLAND.





You Know

that advertised goods have the best sales, SCHOLL Foot Comfort Appliances and Specialties are widely and constantly advertised in the leading Daily, Weekly and Monthly Press.

They are also largely recommended personally—by wearers—by Doctors—by Nurses.

Dr Scholl's Foot Comforts

are in ever-growing demand. It is significant that SCHOLL Dealers everywhere increase the extent of each repeat order. Window and inside displays invariably lead to profitable inquiries—particularly when coinciding with one of our frequent whole-page advertisements. By the way, did you see the fine whole page we had in the "*DAILY MIRROR*" of July 6th? This is only one of our many newspaper announcements.

Particulars of the whole range of SCHOLL Specialties, the profitable terms and proposition, and full-size reproductions of three whole-page newspaper advertisements which have appeared since May, will be sent on request.

Dr. Scholl's Toeflex corrects bunions and restores the normal position of the joint by straightening the crooked toe. Three sizes, 2/- each.

Dr. Scholl's Bunion Reducer relieves and reduces bunions and enlarged joint. Eliminates shoe pressure; Worn in conjunction with Dr. Scholl's Toe Flex. Men's and Women's sizes, each foot 7/6 each.

Dr. Scholl's foot eazer eases tired, aching, weak feet. Corrects flat or weak foot, etc. 10/6 per pair.

THE SCHOLL MFG. CO., LTD.
12 Giltspur Street, London, E.C.1.

Distributing Centres in every Country of the World

RENÉ HEYMANS

9/10 DOMINGO STREET

Tel.: CITY 3765. 36 OLD ST., E.C.1

Vulcanite DOUCHE FITTINGS
" Spare Parts
" Enema Pipes
" Whirling Spray Canules

BONE SHIELDS
BONE MOUNTS
BONE RINGS

French CAPPING SKINS (opaque and transparent)

TOOTH COMBS
(Best Galalit)
POCKET COMBS

Cheap lines in NAIL FILES (bone and steel) carded

SAFETY RAZORS and spare blades.

French SHAVING BRUSHES

NAIL CLIPPERS.

TOOTH BRUSHES
at low prices.

And all kinds of Surgical and Hygienic Rubber Goods.

COMPRESSED MOSS

SPHAGNUM.—The Turf Moss is the *most absorbent* and generally useful surgical dressing. It absorbs twenty times its weight of moisture.

As compressed by us in sheet form it is pre-eminently convenient. The sheet may be used as it is, or loosely crushed and placed in extemporaneous muslin bags.

The moss in this form swells up the moment the moisture comes in contact with it, and the dressing so formed is *resilient, spongy*, and *comfortable* to the patient.

Being compressed, it is ideal for storage and transit.

SAMPLES AND PRICES AT YOUR DISPOSAL.

W. MARTINDALE

10 New Cavendish Street, London, W.

Telegrams: "Martindale, Chemist, Wesdo, London" (3 words).

Telephones: Gerrard 4688; Paddington 1797

FINEST **BLACKS** AND

COLOURS

(ALL SHADES)

CARAMEL COLOUR

IN POWDER.

Guaranteed Harmless.

50

times the concentration of Liquid Caramel.

Sample on application.

Soluble in

WATER SPIRIT
OIL TURPS
WAX BENZOLINE
GLYCERINE NAPHTHA
PETROLEUM CREOSOTE
and
IN FACT—ANYTHING.

BLACK FOR INK.

MARKING INK.

ETERNITE

A combined Stain and Preservative for Wood

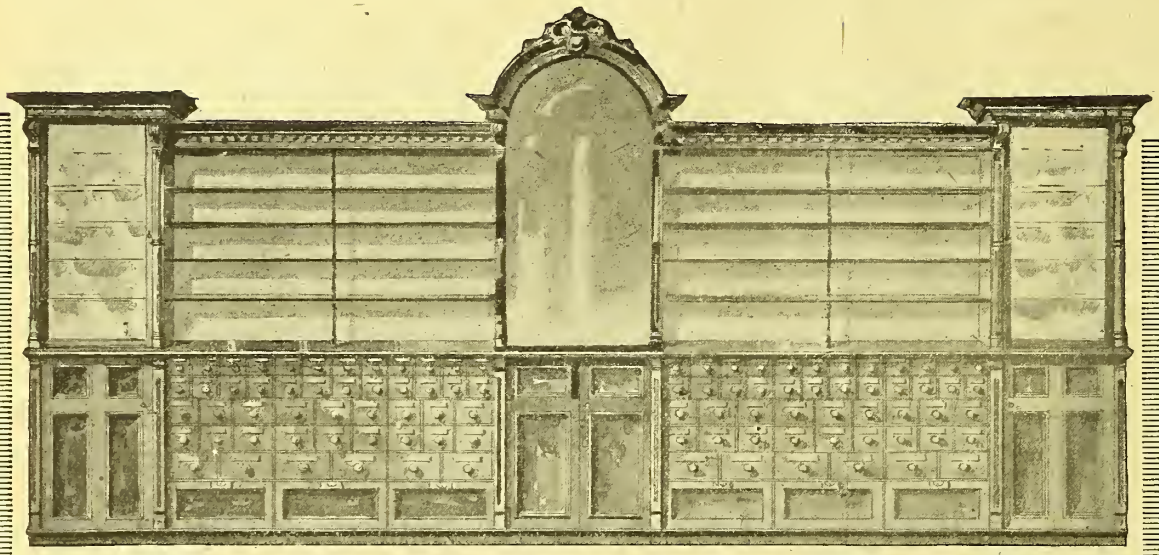
HOUSEHOLD DYES.

RHEUMSOL BATH SALTS

In 1/- Tins.

WILLIAMS BROS. & CO.

Hounslow, Middlesex.



We illustrate an up-to-date drug fitting which is a fine example of modern craftsmanship. Made in any hard wood, polished and fitted to the existing scheme in your shop.

PARNALL & SONS

Complete Shopfittings Specialists

Head Office—27 Summer Row, Birmingham.
London Office—11 Queen Victoria Street, E.C. 4

Dublin—33 Capel Street
Bristol—44 Broadmead

You will Save **Time, Trouble and Money** by sending your inquiries in the **first place to the men who know their Trade.**

H. MILLS & SONS,

The Premier Chemists'

SHOPFITTERS,

Designers and Manufacturers,

163-165 Old Street, London, E.C.

We have a world-wide reputation for designing and fitting up-to-date Pharmacies.

Large Stock of Second-Hand Chemist Fittings always in Stock.

W. DAVIS

100 WOOD ST., E.C.2

'Phone: City 8220.

for OPEN WINDOW DISPLAYS

SHOPFITTERS D&N SUNDRIES DECORATIVE & NEEDFUL

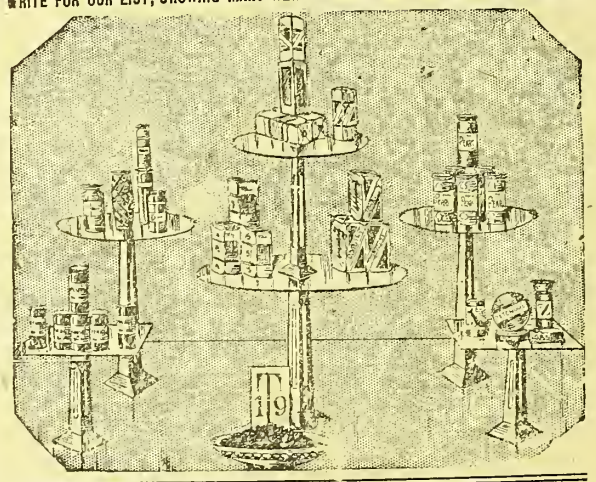
W. DAVIS

100 WOOD ST., E.C.2

'Phone: City 8220.

for OPEN WINDOW DISPLAYS

WRITE FOR OUR LIST, SHOWING MANY NEW DESIGNS FOR OPEN WINDOW DISPLAYS.



Set 118.—Consisting of 2 18 in. OAK PEDESTALS, 3 12 in. ditto, and 1 24 in. ditto, with 1 24×18, 2 18×12, and 1 16×10 in. OVAL, and 2 16×10 in. OBLONG PLATE GLASS SHELVES and 1 WILLOW BOWL. **PRICE 96/- COMPLETE.**

My WINDOW PAPERS are 5/- per roll of 12 yards 21 in. wide. WRITE FOR SAMPLES.

ASBESTOS FILTER FIBRE

Specially prepared for the filtration of Water, Beer, Spirits, Vinegar, Wines, Gelatine, Pharmaceutical Products and Essences.

GIVES A CLEAR AND SPARKLING FILTRATE AT A MINIMUM COST.

PURE, NEUTRAL AND INSOLUBLE.

Write for Samples and Prices to

TURNER BROTHERS ASBESTOS CO., Ltd.,
ROCHDALE, England.

Sutcliffe Bottle Dryer

ILLUSTRATION of a Combination Bottle Dryer specially designed for Manufacturing Chemists. Six to ten gross can be dried in the cupboard per hour, and at the same time large bottles can be dried on the tubes at the rate of two thousand a day of ten hours.

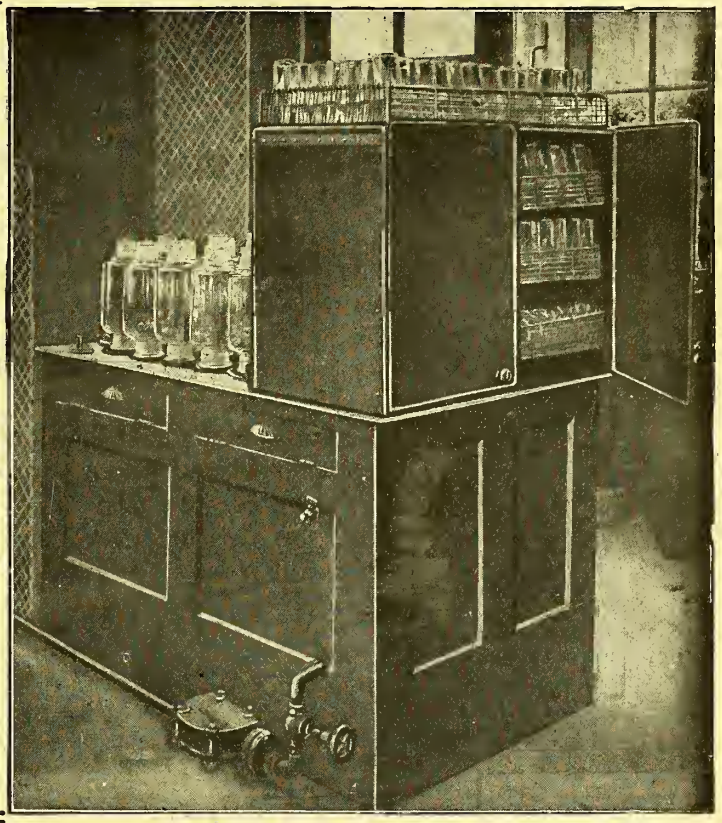
We have supplied scores of these machines, and can give references in every district in Great Britain. Among the best-known users are: Messrs. Allen & Hanburys Ltd.; Bleasdale Ltd.; Boots Ltd.; W. J. Bush & Co., Ltd.; W. B. Cartwright Ltd.; British Drug Houses Ltd.; Duncan, Flockhart & Co.; R. Gibson & Sons, Ltd.; Hirst, Brook & Hirst Ltd.; Johnson & Sons; Lofthouse & Saltmer Ltd.; Meggeson & Co., Ltd.; Yardley & Co., Ltd.; etc.

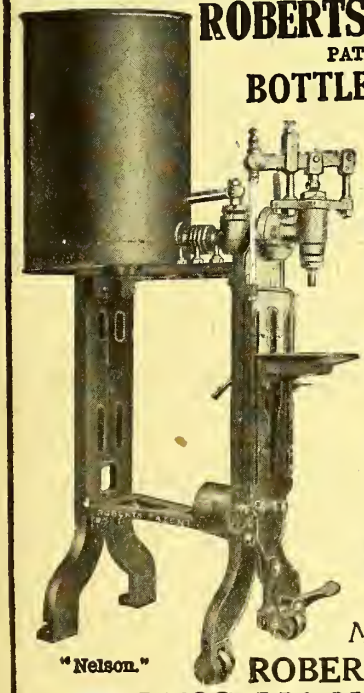
We also make special Plant for Drying Confectionery & Chemicals.

Illustrated Catalogue Sent on Request.

Sutcliffe Ventilating & Drying Co. Ld.
Cathedral Gates, Manchester.

Telephone No.: 3920 City. Telegraphic Address: "Ventilabro."





ROBERTS' ORIGINAL
PATENT
BOTTLE-FILLING MACHINES

Don't waste money on imitations, buy Roberts' Machines which actually **Created the Records** for **CLEANLINESS SIMPLICITY, and Rapidity in Bottle Filling.**

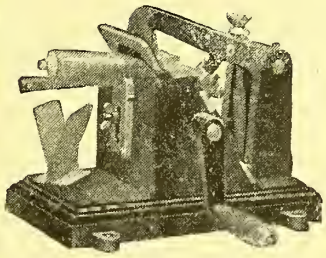
NOTE the address

"Nelson." ROBERTS' PATENT
FILLING MACHINE CO.,
33 ROUNDCROFT ST., BOLTON.

OUR LATEST PATENT "ALPHA" PRICE £14, WILL FILL 10 GROSS BOTTLES PER HOUR.

Write for Particulars. *All rights reserved.*

INCREASE YOUR OUTPUT AND SAVE LABOUR
BY USING THE
"CENTRAC"
FILLING MACHINES
For TUBES, POTS, JARS and BOTTLES



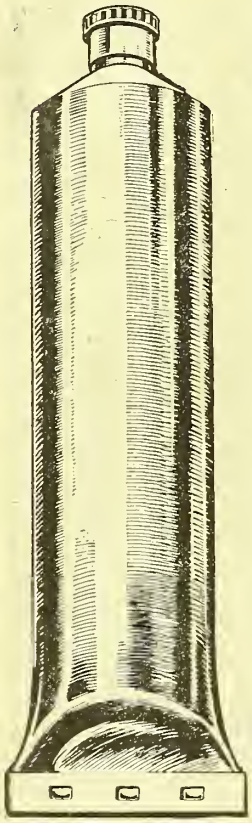
Hand Tube Closing Machine.

The Best and Cheapest Machines on the Market.

Used by all Leading Firms.

Send us your requirements.

Sole Makers—
The Banister Street Works, Ltd.
ENGINEERS,
45 High Street, HOMERTON, E.9.



Tubes that attract

Let your collapsible tubes be more than mere containers

REMEMBER—the prospective customers see the tube first. When you are ordering your next supply get Venesta Tubes, they have that quality and finish that is going to help you sell the goods.

Made in pure tin, lead, and lead coated with tin, plain, enamelled and printed with designs to customers' own requirements.

Write for particulars and current prices—your inquiries will receive our immediate attention.

TIN FOIL

We also manufacture Tin Foil in sheets or reels, highly polished, plain, embossed or coloured, and suitable for every purpose.

Venesta Ltd
Collapsible Tubes
1. Great Tower Street, London. E.C.3.

"Comet" Vacuum FLASKS.

Every flask tested at the works before dispatch.

Mayfair Chemical Co.,
11 Queen Victoria Street,
LONDON, E.C.4.

Tel. No.: City 3373.
Tel. Add.: "Agenda, Cannon, London."

BOOKS For Pharmacists

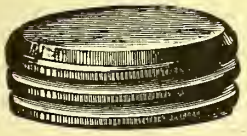
Send us a postal card and we will send you a 32-page catalogue of professional and business books for pharmacists, and a copy of

"THE SPATULA"

an illustrated monthly magazine for druggists, full of American snap and enterprise.

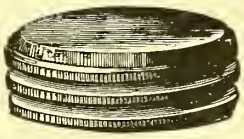
THE SPATULA PUBLISHING CO.,
BOSTON 14, MASS., U.S.A.

MANUFACTURERS
OF



Collapsible Metallic Tubes

For Artists' Colours, Tooth Pastes, Lanoline, &c.



SPRINKLERS
FOR
Perfume Bottles and Hair Washes.

METAL CAPS
FOR
Glass Jars and Toilet Preparations.

24 CITY ROAD, FINSBURY SQUARE, LONDON, E.C. 1

1

ECONOMICAL
PARCELLING

By gum it sticks!!

"IRIS" GUMMED TAPE

Write for Samples & Prices.

R. A. STEPHENSON, LTD.,
130 Queen Victoria Street, London, E.C.4

OFFICES..
GT TURNSTILE,
HIGH HOLBORN.

WORKS..
WHETSTONE PARK.
LINCOLN'S INN FIELDS.

LABEL & GENERAL PRINTERS.
SHOWCARDS · CARTONS
ENVELOPES OF ALL KINDS,
SHAMPOO, CORN SILK etc.
DENTAL & OPTICAL
CIRCULARS.

GT TURNSTILE,
HIGH HOLBORN,
W.C.1.

AGENTS FOR THE REGISTRATION OF TRADE MARKS.

THE LUMEX SYSTEM

increases your goodwill. Repeat orders are coming in to such an extent that a special plant has been installed to deal with "printing only" orders.

THE TRADE ONLY.

ROLL FILMS AND PLATES DEVELOPED & PRINTED ON A FORTY-EIGHT HOURS' SERVICE.

TRADE TERMS AND PARTICULARS OF SERVICE

Phone: 4310 Dublin.

LUMEX LTD.

Telegrams: "Lumex, Dublin."

DAME LANE, DUBLIN.

DEVELOPING. PRINTING. ENLARGING.
PRICE RIGHT. QUALITY RIGHT. SERVICE UNEQUALLED.

All work returned within 24 hours Enlargements 3 days. Send for Trade Terms.

OUR NEW WORKS ARE NOW COMPLETE AND RUNNING.

PROMPT DELIVERIES GUARANTEED.
JOIN THE LIVE DEALERS' SERVICE.

Wallace Heaton Ltd
INCORPORATING WATSONS CAMERA HOUSE

17-27 CHANGE ALLEY, SHEFFIELD.
Phone: 27, 255 & 3390. Grams: "ZODELLA, Sheffield."

PHOTO ALBUMS
OF
SUPERIOR QUALITY & DESIGN
PASTE-ON and SLIP-IN.

Stiff or Flexible Covers in Canvas or Leather.
Retail Prices range from 9d. to 35/- each.

When a dealer sees our Albums he orders, and when he stocks them he becomes a regular customer. We are anxious therefore, that every Chemist and Photographic Dealer should see our goods, and we are offering to send a 30/- *Cash Parcel, Carriage Paid*, to any part of the United Kingdom. The parcel will contain a choice selection of our best selling lines, and an Illustrated Catalogue will be enclosed. Send for this 30/- parcel and then make up a Stock order.

REGINALD E. CARTER, Ltd.
12 Lower Seymour St., Portman Sq., London, W.1.

Is it **OINTMENT TINS** *you are looking for?*

If so, we are looking for you.

We are in a position to supply Tin-Box Containers in any quantity, quality and finish unsurpassed. Send us your inquiries, whether small or large buyers. Special quotations for large buyers.

SAMPLES SENT ON APPLICATION.

PLAIN.		GILT.	
½-oz.	5/- gross	½-oz.	5/6 gross
¾-oz.	6/- ,,	¾-oz.	6/6 ,,
1 oz.	7/- ,,	1 oz.	7/6 ,,

ALL SIZES QUOTED FOR.

Sent out in 1 gross free outers.

Terms : Cash with Order. *London Deliveries C.O.D.*

ROBERT BLACKIE, Tin Box Dept.,
Manufacturer of the World-Famed "Spun" Ointments,
Shen Works, TOWER BRIDGE RD., LONDON, S.E.1.

Telephone: Hop 2415.

ASK OUR PRICE FOR "SPUN" OINTMENTS PACKED IN ABOVE TINS, LABELLED.

Telegrams: "Ushenspuna, London."

JAR and BOTTLE COVERS and CAPS

also **BOXES**. All sizes, in celluloid, with YOUR OWN ADVERTISEMENT printed in by new process.

Samples and quotations from **THE CENTUPLE MANUFACTURING CO.**
Western Road, Merton Abbey, LONDON, S.W.19

YOUR SALES LETTERS

Profitable sales letters which will create you new business are my speciality—results I have obtained for others can be yours also. I work on scientific principles applied to individual needs, with your goods on my desk. My services are free for a limited number of clients—take advantage of my ability now.

A. V. HYDE, 28 MONUMENT STREET, E.C.3.

Pure Liq. Ammonia ·880
Disinfectant Fluid, in Barrels or Drums
Carbonate of Ammonia
Labelling Pastes, Adhesives, etc.
HOME OR EXPORT.
LEWIS BATLEY & CO., STOCKPORT.

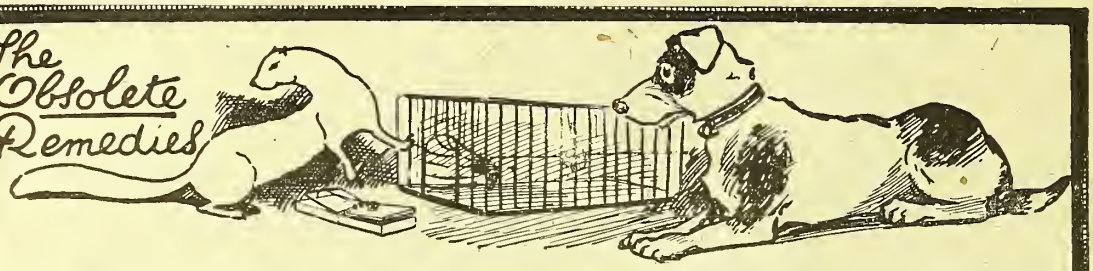
MORRIS, LITTLE & SON, Ltd., DONCASTER

SHEEP DIPS Poisonous and Non-Poisonous of all kinds.
DISINFECTANT SOAPS of all kinds.
Sole Proprietors and Manufacturers of **PHENOID (formerly called PHENYLE).**

DISINFECTANTS of all kinds, including LYSOL SUBSTITUTE and High Co-Efficients.

Largest Makers of Non-Poisonous Sheep Dip in the World.

The Obsolete Remedies

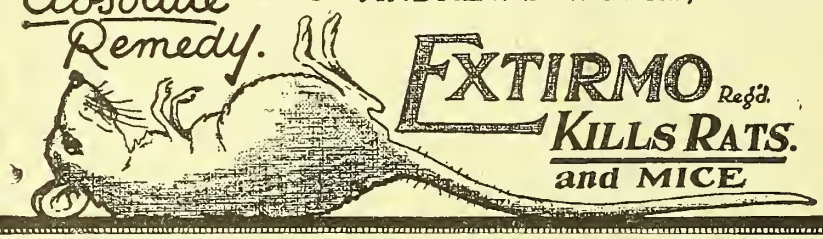


A READY SELLING RAT POISON

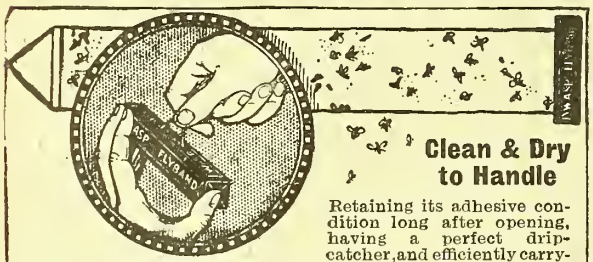
of proven value. It is on the Government List. It always retains its effectiveness—therefore creates no bad stock. Now being advertised in the Press. Helping your sales and therefore ours. Extirmo retails in tins at 7½d., 1/3, 2/6, and 5/-, and shows you a splendid profit. *Are you stocking Extirmo?* Write to-day to the manufacturers for full particulars. Prompt deliveries for either Home Trade or Export.

E. H. WRIGGLESWORTH, Ltd.,
ST. ANDREW'S WORKS, HULL.

The Absolute Remedy.



EXTIRMO Regd.
KILLS RATS.
and MICE



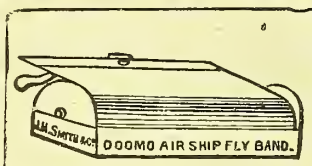
Clean & Dry to Handle

Retaining its adhesive condition long after opening, having a perfect drip-catcher, and efficiently carrying on its work of fly destruction, the Wasp Flyband has an enormous sale.

WASP FLYBAND

pays you because it gives rapid turnover at a protected profit, is clean and dry to handle, and is the most effective fly-catcher sold. Write for prices. *Manufacturers*—

F. W. HAMPSHIRE & CO., LIMITED, Riverside Works, DERBY.



Doomo Airship Fly Band

Write for quotations.

A wide, long band, sticky on both sides.

SMITH & CO.,
Doomo Works, Newark

NAIL FILES, SCISSORS, CLIPPERS, INSTRUMENTS.

—TWEEZERS & FORCEPS.—

Special quotations to large buyers.

HENRY W. SCURR, HENRY RD., SLOUGH

BATTLE, MALTBY & BOWER

Victoria Chemical Works - LINCOLN.

MANUFACTURERS OF

SHEEP DIPS
(Liquid, Powder and Paste)

CATTLE WASH

EMBROCATION
(Veterinary and Household)

WEED KILLER

DISINFECTANTS

PACKED UNDER CHEMIST'S OWN NAME IF REQUIRED.
WRITE FOR PRICE LIST.

STICKY FLYCATCHERS

Bands and Tapes.
"FLYSAC," Tape. "VIPER," 2" and 4" Bands.

"BIG BAT" FLYPAPERS.

"CHESHIRE" and "DAK" Birdlimes.
For Rats, Mice, etc.

"ORBITE" Banding Material.
For Fruit Trees.

SOLE MAKERS—

Kay Brothers Limited, Stockport.

Read this

HAWLEY'S I.K.

specimen-order.

HAWLEY'S I.K.

"KILLS TO STAY KILLED."

Specimen Order with Bonus for Window Display.

			Cost	Selling price
6	doz.	4d. at 2/8 ...	16 0	£1 4 0
½	,,	Free ...	– – –	2 0
5	,,	8d. at 5/4 ...	1 6 8	2 0 0
5/12	,,	Free ...	– – –	3 4
1	,,	1/3 at 10/- ...	10 0	15 0
1/12	,,	Free ...	– – –	1 3
			£2 12 8	£4 5 7
			P.A.T.A.	P.A.T.A.

PROFIT - 62.2% on cost.

Double the above order, and give a window display, and we allow 5% discount. The result then is as follows:—

		Selling price
Cost	£5 5 4	– – –
Less 5%	5 3	– – –
	£5 0 1	£8 11 2
	P.A.T.A.	P.A.T.A.

PROFIT - 71.1% on cost.

EVANS SONS LESCHER & WEBB Limited,

LIVERPOOL NEW YORK LONDON.

Your SPECIAL BOTTLE

IS

My SPECIALITY !

¶ *Please send me your inquiries for your special bottles in WHITE, GREEN, BLUE or AMBER.*

WHOLESALE QUANTITIES ONLY.

A. OPPENHEIMER, 14 Queen Victoria Street, LONDON, E.C. 4.

Telephone: CENTRAL 4452. *Telegrams:* "OPPBOTTLE, CANNON, LONDON."

Paris: 4 RUE MARTEL. *Brussels:* 4 RUE ST. CHRISTOPHE.

Eau de Cologne Corkscrews

FRANK A. CONDUIT,
SUTTON HOUSE,
2 OLD STREET,
LONDON, E.C. 1.

"TAPON" (Regd.)

Tie up your Parcels with Advertising Tying Tape. Pleases both Eye and Pocket and gives Distinction to every Parcel sent out.

Various Colours and Widths. Printed or Plain.

Write for particulars when Prices and Patterns will be forwarded.

S. D. SIMOND & CO., LTD.

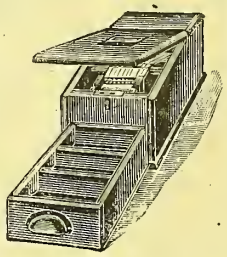
10 Monument Street - - E.C.3

Tel. : Avenue 6378. Telegrams: "Duncasim London."

THE IMPROVED

DUDLEY CASH TILL.

This Till, though so inexpensive in price, does the work just as efficiently as one costing double the price. It is made from well-seasoned wood, stained and polished to imitate richly coloured mahogany. Size: 18×9×7¼". Lid fitted with lock and key. Recording paper 3⅞" wide. Automatically rings warning bell every time cash drawer is opened. Price, packed in wood case, **77/6** each.



Sent on 14 days' trial on receipt of cash or two wholesale trade references.

Dudley Till Coils, 5/- doz.

DUDLEY & CO., 451 Holloway Road, N.7.

City Showrooms—25 Wood Street, Cheapside, E.C.2.

WHITAKER & Co.'s PAGE

There is a big demand and ready sale for

GLOSSY SERIES supplied if desired. Special NON-INFLAMMABLE SERIES for Export

LUTON STRAW HAT DYES

AND

WHITAKER'S UNIVERSAL FABRIC DYES

STRIKING AND ATTRACTIVE SHOWMATTER SUPPLIED

Write to-day for Complete Price Lists and Patterns to

WHITAKER & CO., Colour Works, KENDAL

Telegrams: "Dullette Kendal." Telephone: No. 214.

London Office and Showrooms: Craven House, Kingsway, W.C. 2.

Telephone: Gerrard 1774. Established 1878.

Qualifying ("Minor") Examination

UP-TO-DATE SYSTEMATIC CORRESPONDENCE COURSE.
COMPLETE, THOROUGH AND INDIVIDUAL TUITION.
COACHING IN INDIVIDUAL SUBJECTS.

Special Revision and Preparatory Courses.

SUCCESS ASSURED.

MANY TESTIMONIALS. LOW INCLUSIVE FEES.

C. A. SCURR, M.P.S., F.S.M.C., F.I.O., 40 Courthope Road, Hampstead. LONDON, N.W. 3

London College of Pharmacy

PRINCIPALS:
Henry Wootton, B.Sc. (Lond.), Chas. W. Gosling, Ph.C.

Revision Course for October Minor commences August 16.

Revision Course for January Minor commences October 5.

For Particulars of other Courses apply to the Secretary—
361 Clapham Road, London, S.W. 9

PRELIMINARY EXAMINATION for PHARMACEUTICAL STUDENTS

THE College of Preceptors holds Preliminary Examinations in March, June, September, and December. All the Examinations are held in London, Aberdeen, Birmingham, Blackburn, Bristol, Cardiff, Edinburgh, Glasgow, Leeds, Liverpool, Manchester, Newcastle-on-Tyne, and Nottingham. For the June and December Examinations there are other Centres, including Blackpool, Brighton, Carmarthen, Cheltenham, Croydon, Exeter, Margate, Plymouth, Portsmouth, Sheffield, Southampton, Southend, Southport, Sunderland, Weston-super-Mare, and York. For Regulations apply to the Secretary, College of Preceptors, Bloomsbury Square, London, W.C.

MECHANICAL DENTISTRY.

To INCREASE YOUR PRACTICE send your Work to

A. G. FENTIMAN.

Every case executed under personal supervision, thus facilitating fit and giving complete satisfaction. Send for price list, &c., to (the only address)
A. G. FENTIMAN, 22 Duke St. (off Bishopsgate), Brushfield St., London, E.1
Telegrams: "Fentident Ave, London." Telephone: London Wall 74

WILLS' UNIVERSAL POSTAL SYSTEM

For the QUALIFYING, PRELIMINARY & APOTHECARIES' HALL EXAMINATIONS. FEE, £1 1s.
N.B.—Students who fail in Part I. of the Qualifying Examination can take a course of lectures on those subjects only in which they were unsuccessful, and so ensure success at their next attempt.
"Wills' Universal Postal System is really world-wide, for Mr. G. S. V. Wills, 190 Clapham Road, London, S.W., the originator, has extended it to cover all pharmaceutical examinations in the British Empire at an inclusive fee of One Guinea, apart from postage."—*Chemist and Druggist.*
For Prospectus, Write or Phone the PRINCIPALS, Westminster College, 190 Clapham Road, London, S.W. 9.

John E. Raworth & Moss

Chartered Patent Agents.
Patents, Designs and Trade Marks.
The Old Mansion House, 73 Cheapside, E.C. 2. AND *75 Victoria Street, Westminster, S.W.1.*

PIPES AND SMOKERS' REQUISITES

Price Lists on Application.

HARWOOD BROTHERS.
BRIAR PIPE MANUFACTURERS,
8/20 Richmond Street, LIVERPOOL.

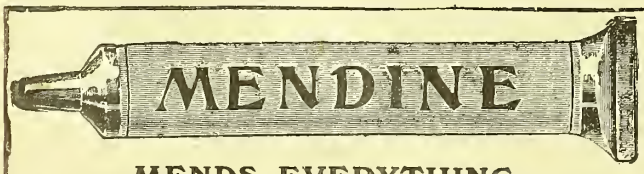
Telegrams: "THERMORIGI BRIGHTON."

TRADE MARK: "THERMORIGI," REGISTERED.

Member of British Lamp-blown Scientific Glassware Manufacturers' Association, Ltd., and Glass Research Association.

E. S. ARRIGHI,

CHEMICAL AND EXPERIMENTAL GLASS BLOWER AND THERMOMETER MAKER,
39 & 40 BOND STREET, BRIGHTON.



MENDS EVERYTHING.

A PERFECT Liquid Glue CEMENT

Made from the finest materials obtainable. **Guaranteed** to retain its efficiency **for Six Years.** In **2d., 3d., 5d., & 7d.** Tubes. Boxed in dozens. Also in Bulk for Carpentry, Joinery and Aeronautical Works, etc., ½-lb., 1-lb., 14-lb., and 28-lb. Tins.
Indent through Merchant Shippers. Export Cases at Cost, f.o.b. London.

MENDINE CO. (Sole Proprietor, FRANCIS W. COOMBE) 8 ARTHUR ST., LONDON BRIDGE, E.C. 4
(1)

Cellophane

What Is It?

CELLOPHANE

is a transparent film of pure Cellulose, **absolutely** air, grease, and odour proof, **unaffected** by cold, heat, or moisture, and **sterilisable.**

An **ideal wrapping** for Drugs, Tablets, Bath Crystals, Perfumery, Provisions, Sweets, Surgical Dressings, Articles of Toilet, &c. &c.

Will keep your Goods, Boxes, Bottles, and delicate Labels **clean** on the Counter and in Shop Windows, allowing the Articles to be seen **by transparency**. Can be had colourless, coloured and embossed.

Also in the shape of **Discs** for Creams, Ointments, Boot Polish, &c.

Prices, Samples and Particulars from

The CELLOPHANE COMPANY
(LECLERCQ & CHARÉRAT),
15 Cullum Street, London, E.C. 3.

PACKING

Into small packets, cartons or tins, for the

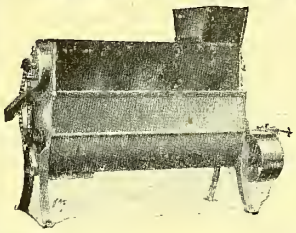
Chemical and Allied Trades

undertaken by the

FOREST GATE CHEMICAL Co.

Eagle Works, Sylvan Road, Forest Gate, LONDON, E. 7.

"LEYSELL" Sifting and Mixing Machines.



Made in various sizes for power or hand.

For mixing a large variety of dry powder.

Quick delivery. Inquiries solicited.

LEYSELL ENGINEERING CO.
(J. W. HEFFORD),
66 Aldermanbury, London, E.C. 2.

ESTABLISHED 1889

SEND FOR

SPLIT SKINS

TO

R. LECONTE & CO.

Capping Materials Specialists,
7 & 8 South Street, FINSBURY,
LONDON, E.C. 2.

PHONE: CLERKENWELL 1588. WIRES: "ETNOCEL, AVE, LONDON"

CORRUGATED PAPER

ROLLS, SHEETS, BOXES (collapsible)

Cartons, "Cut Pieces," Strong Outers, for every description of Packing.

Keenest Prices. Quick Delivery.

Inquiries Welcomed.

The Guildhall Corrugated Paper Co.
Guildhall Buildings, Navigation Street,
BIRMINGHAM.

Telegraphic Address: "Corrucarb," Birmingham. *Telephone:* Central 4291.

The Mark of

Quality and Reliability.

ELLIOTT OPTICAL COMPANY

Propr. Guy E. Druiff.

All descriptions of
OPTICAL GOODS and an excellent
PRESCRIPTION SERVICE.

104 & 105 GT. SAFFRON HILL,
LONDON, E.C.

THERMOMETERS

IMMEDIATE DELIVERY.

Stock of various patterns ranging from
per 15/- doz.

ARTHUR BERTON, Limited

15-17 Worship Street - LONDON, E.C.2
And at
MANCHESTER and GLASGOW
46a Market Street. 11 Miller Street.

Telegrams: "Aybelim, Finsquare, London."
Phones: Clerkenwell 1347, 1348, 1349 (Private Exchange).

CAPPING SKINS

WHITE AND COLOURED SPLITS,
OPAQUE AND TRANSPARENT
BAUDRUCHE. SPRINKLERS.

ARTHUR TOOMBS & CO.
Perfumers' Sundriesmen,
26-27 Bush Lane, Cannon St., LONDON, E.C.4.
Telephone: Central 13374.
Telegraphic Address: "Deflection, Cannon, London."

11th SEASON

The "Milner" Straw Hat Cleaner

Sells well everywhere - 3d.

It is easily used and gives complete satisfaction.

Prices:
6 doz. 10/- net.
12 ,, 19/- ,,
With Showcards - - etc. Carriage Paid. 13 to doz. for cash with order.

Discount—
Orders of 20/—2½%
£5—5% £10—7½%

MILNER'S CHEMICAL CO
Liverpool.

OAKEY'S
"WELLINGTON"
KNIFE POLISH

The original and only reliable preparation for Cleaning and Polishing Cutlery, &c.

In Canisters, 1d., 2d., 3d., 6d., 1s., 2s. 6d., and 4s. each.

JOHN OAKEY & SONS, Lim.

MANUFACTURERS OF

Emery Cloth, Black Lead

GLASS PAPER, &c.

"WELLINGTON" KNIFE POLISH
The Original Preparation for Cleaning Cutlery.
Canisters, 1*d.*, 2*d.*, 3*d.*, 6*d.*, 1*s.*, 2*s.* 6*d.*, and 4*s.* each.

SILVERSMITHS' SOAP
For Cleaning & Polishing Silver, Electro-Plate, etc. Tablets, 6*d.*

"WELLINGTON" BLACK LEAD
In Solid Blocks, 1*d.*, 2*d.*, and 4*d.* each, and 1*s.* Boxes.

Polishing Paste, Furniture Polish, Plate Powder, Rouge, Urn Powder, Steel Polish, Crocus, Tripoli, Brunswick Black.

Westminster Bridge Road, LONDON, S.E. 1.

Telephones:
Private Branch Exchange
Holborn 1388 (3 lines.)

Telegrams:
"Astigmatic, Smith, London"
Cables: "Astigmatic, London"

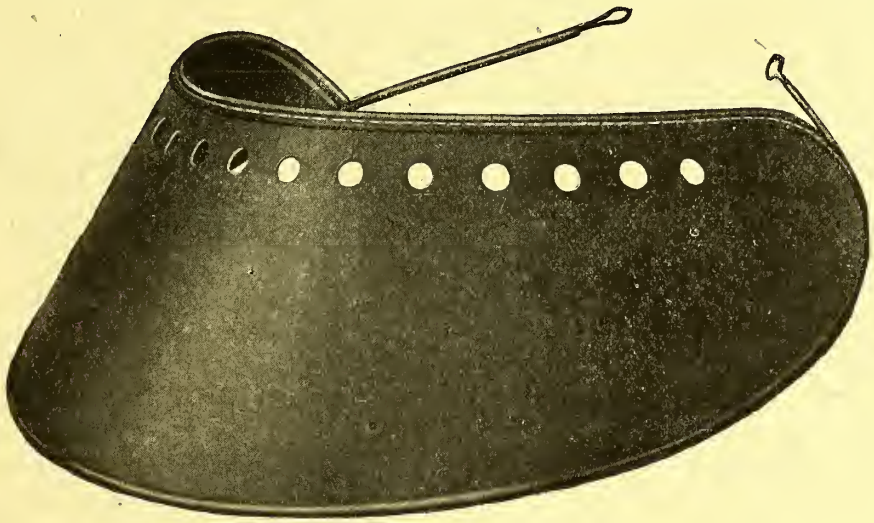
NON AURI SED OCULO

RAPHAEL'S LTD.

HATTON GARDEN, LONDON, E.C.1

READING SHADES

FULL SIZE, METAL BOUND, with HEAD BAND.



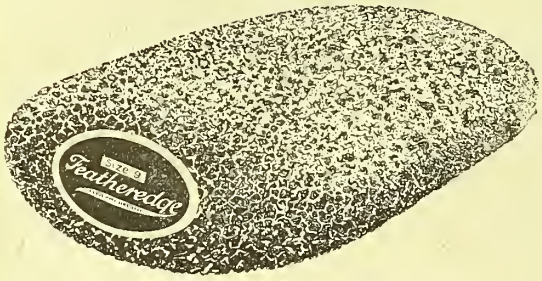
No. 19006.

ALL **OPTICAL** REQUISITES AND SUNDRIES
FOR THE

CHEMIST-OPTICIAN.

Featheredge
TRADE MARK

RUBBER SPONGES



Are durable and do not harden. When used with soap, they make a delightful lather.

Obtainable of all Wholesale Druggists' Sundries Houses

MARKT & CO., LONDON, LTD.

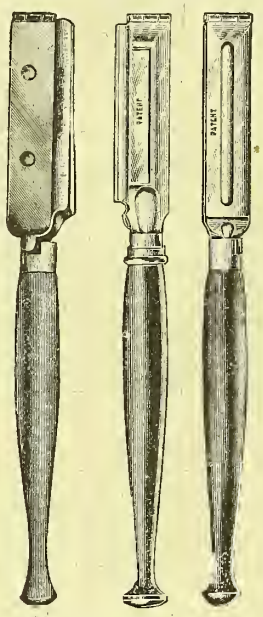
American Merchants

SOLE IMPORTERS

98-100 CLERKENWELL ROAD, LONDON, E.C. 1.

A-1 STROPPER MAKES OLD BLADES NEW

POPULAR AND PROFITABLE LINES



No. 1. For Gillette Type Blades
No. 2. For Clemak Type Blades
No. 3. Double-sided Gillette Type

SAFETY RAZORS curved top

SAFETY RAZOR CASES

Fancy Leather Goods

WHOLESALE and EXPORT only

E. LLOYD

63 Wednesbury Rd.
WALSALL

London Office:
Finsbury Pavement House
Finsbury Pavement, E.C.2.

For Quick Clearance
A limited stock of

THE BRITISH

Hollow-Ground

RAZORS

(No. R iii).

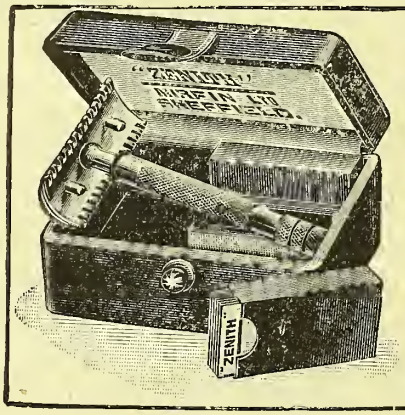
Price 25/- Dozen

Black Vulcanite Handles

Samples sent if desired.

JOHN MILNER & CO.

Orient Works, Matilda Street, SHEFFIELD.
T.A.: "Intrinsic Sheffield." T. No. 4147.



"ZENITH"

SAFETY RAZORS

WRITE FOR TERMS.

Made in seven styles on scientific lines.
Perfect curved top Silver Plated.
High-class Finish.

J. MIRFIN & SON, Ltd.
32 Arundel Street,
SHEFFIELD.

Buy and Sell

The BEST RUBBER SPONGES

—the quality product of well-known British Rubber Manufacturers.

Godbolds.

BELDAM

BRITISH QUALITY

BELDAM Rubber Sponges are remarkable for their purity—from which follow their Smoothness, their Softness and Cleanliness in use—also their capacity for absorption and their length of life. They last much longer than ordinary rubber sponges.

They provide the perfect sponge for use in the toilet, the bath, the lavatory, the sick room or the surgery.

Medical men recommend them. They are unaffected by boiling water or by strong disinfectant.

They are made in five sizes. And the prices to you are strictly moderate—from 13/6 per dozen.

FREE SAMPLE

To enable him to test for himself the qualities of Beldam Rubber Sponges we will send a sample sponge free to any principal who applies in writing to us.

Address:

Rubber Sponge Dept., The Beldam Tyre Co. (1920), Ltd., Brentford, Middlesex.

RUSSIAN LIQUID PARAFFIN
THE DAWN OF HEALTH
REDDGRAVE BUTLER & Co
PARK LODGE
FOREST LANE, E.15.

THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST. LONDON, E.C.4.

JULY 10, 1920

This Supplement is inserted in every copy of The Chemist & Druggist

THE CHEMIST AND DRUGGIST SUPPLEMENT
REVISED ADVERTISEMENT TARIFF.

Businesses Wanted and for Disposal, Premises to Let, Goods and Shopfittings for Sale, and Agencies: 6/- for 50 words; every additional 10 words or less, 6d.
SITUATIONS OPEN: 6/- for 40 words; every additional 10 words or less, 6d.
SITUATIONS WANTED: 2/- for 18 words; every additional 10 words or less, 6d.

Legal Notices, Tenders, Auctions, and all specially spaced announcements, **1/3** per nonpareil line (12 lines = 1 inch single column).
Miscellaneous (Wholesalers') Section, for odd and second-hand lots; **10/-** for **60** words; **1/-** for every additional **10** words or less.
EXCHANGE COLUMN (for Retailers, etc.). **Twopence** per word, minimum **2/-**

BOX NUMBER.

In each case replies may be addressed to a registered number or nom-de-plume, c/o this Office, **at a charge of 1/- extra** for each advertisement.

PAYMENT.

All advertisements are prepaid, so that remittance must accompany instructions in each case. If it be necessary to telephone or telegraph in urgent announcement this may be done, provided the money is telegraphed at the same time.

THE CHEMIST AND DRUGGIST, 42 Cannon Street, LONDON, E.C.4.

Telephone: Central 3617 (3 lines). Telegrams: "Chemicus, Cannon, London" (2 words).

EARLIER CLOSING FOR PRESS.

Will advertisers please note that until further notice it will be necessary that Advertisements intended for the Supplement must reach us not later than the FIRST POST THURSDAY MORNING.

CHEMISTS' TRANSFERS.
Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone No: City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION,

1.—LONDON, S.W.—Ready-money Business; returns last year between £1,600 and £1,700; present rate about £2,000; roomy shop; resident sub-let; 21 years' lease; to effect a speedy transfer vendor will consider a reasonable offer.

2.—LONDON, N.—Well-established Business, including excellent Optical connection; returns exceed £2,000 yearly (present rate); 7-roomed house and garden; rent £60; held on lease; terms, lease and goodwill £75, stock and fixtures by valuation, or lump-sum offer would be considered.

3.—POPULAR HEALTH RESORT (one hour from Town).—Modern Pharmacy; position unique; returns, under manager, £7,000, increasing; large well-fitted shop; electric light; price £4,800.

4.—KENT.—Good-class Retail and Dispensing Business; returns last year £2,519, at full prices; large house; private entrance; bathroom; small garden; held on lease; price £1,600, or valuation terms entertained.

5.—INLAND HEALTH RESORT.—Old-established Retail and Dispensing Business; returns between £2,200 and £2,400, increasing; fair profits obtained; well fitted and fully stocked; new lease will be granted; price to be agreed.

6.—INLAND HEALTH RESORT.—Good-class Business; Retail and Dispensing; returns £1,000, formerly £3,000; well-fitted shop and residence; stock and fixtures estimated at £800; price £950; death cause of sale.

7.—SOUTH COAST.—For disposal, Wholesale Business, returning about £500 monthly; modern factory; two floors; electric light; moderate rental; held on lease; further details on application.

8.—GREAT WESTERN MAIN LINE.—Old-established Dispensing Business, embracing select Proprietary trade; vendor giving up the Retail; returns £3,600, at full prices; price, to include freehold property, £5,500.

9.—SOUTH COAST.—High-class Retail and Dispensing Business; returns last year between £4,600 and £4,700, at good prices; there is a nice residence attached, and a new lease for 21 years would be granted; price £3,500.

10.—HAMPSHIRE.—Modern Cash Pharmacy; well-established concern; returns about £3,000 per annum, at good prices; large, well-fitted shop, fully stocked; no immediate opposition; lease will be granted at a rent of £90 per annum; price £1,800.

11.—NORTHAMPTONSHIRE.—Brisk Retail Business, situate in busy market town; returns at the rate of £3,000 per annum; *net profit* 25%; price £2,500.

12.—NORTH STAFFS.—General Retail Business; returns exceed £2,500 per annum; books open to investigation; double-fronted shop; low rent; new lease can be obtained; price about £1,500.

13.—SCOTLAND.—General Retail Business; returns £20 weekly, at fair prices; modern fitted shop; convenient residence; price, including premises, £1,200.

14.—YORKS.—Lock-up Pharmacy; returns, present rate, £70 monthly; scope for increase; *net profit* 25%; rent £30; a lease will be granted, or premises might be purchased; price for the business, £650.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co., desire to emphasize the necessity of a periodical Statement of Account, by which means alone **Profit, the value of Business, &c.,** can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and make **Special Terms** for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

BERDOE & FISH

VALUERS & TRANSFER AGENTS

35 Jewry Street, Fenchurch Street, E.C.3.

Telephone: 1809 CENTRAL.

CUMBERLAND.—Small market town. Returns £1,400, low rent, good house, well fitted and stocked shop. Valuation terms, about £650 required.

LONDON, N.W.—Suburb. Unopposed retail. Returns £1,500, can be doubled. Price £1,400.

LONDON, N.—Old-established, light cash retail, with good optical connection. Returns over £2,000. Good profits. Well-fitted pharmacy and fully stocked. Six-roomed house attached. Price £1,000, or valuation, *plus* £75 goodwill. Illness sole reason for selling.

BUSINESSES WANTED.

We have genuine cash buyers on our books prepared to take over immediately businesses in the following localities:

LONDON (good-class suburb).—Prices from £600 to £3,000.

HOME COUNTIES (large or small towns).—Prices from £500 to £2,500.

SOUTH, S.E., or S.W. COAST.—Prices, £800 to £3,000.

EASTERN COUNTIES.—Prices, £600 to £2,000.

SOUTH MIDLANDS OR MIDLANDS.—Prices, £500 to £3,000.

Intending vendors are cordially invited to correspond. Private register kept. Quick sales guaranteed.

ESTABLISHED 1870.

AGENCIES.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **1/-**.

A.—SOLE LICENSEES in the United Kingdom for a high-grade line of Proprietary Articles which will be well advertised, are desirous of locating Agencies in the provincial centres with reliable firms who have established connection with the Retail Chemists' trade; please state fullest particulars, territory covered, number of representatives, etc.; replies will be treated in strictest confidence. Write "Proprietary," c/o Crossley & Co., Ltd., 5 Racquet Court, Fleet Street, E.C. 4.

AGENTS wanted throughout the United Kingdom, with connection amongst Chemists, Hairdressers, and Stores; quick-selling line, largely advertised; liberal terms. Apply "Society," Lambert House, Ludgate Hill.

DRUGGISTS' SUNDRIES.—Manufacturers' Agent, with a sound Wholesale connection and office and showroom in the City of London, requires an additional line; substantial business certain for a reliable manufacturer or importer of a staple line. N. Alexander, 212 Bishopsgate, London, E.C. 2.

FIRM of Manufacturers' Agents, established over 20 years, with premises in central position in Glasgow, is open to take up Glasgow or Scottish Agency for anything that interests Wholesale or Retail Chemists; over 600 open accounts in Scotland; can carry small stock; foreign correspondence invited. Apply 114/11, Office of this Paper.

OLD-ESTABLISHED Manchester firm, with offices in Bombay and competent staff, are open to accept Agencies for any good selling articles other than textiles; proprietary articles preferred. Write Box 249, Sells' Advertising Offices, 32 Corporation Street, Manchester.

WELL-ESTABLISHED firm in Egypt desires to get in touch with manufacturers of Pharmaceutical and Chemical Products and all Pharmacy accessories with a view to representation in the whole of Egypt, the Soudan, and Syria; first-class references on London and European houses. Address 136/38, Office of this Paper.

SOUTHALL BROS. & BARCLAY, Ltd.
(Valuation and Transfer Dept.)
Special Terms for Probate and Trading Accounts, Income Tax, etc.
For particulars apply—
19, 20, 21 LOWER PRIORY, BIRMINGHAM.

PARSON C. BAKER Ph C., M.P.S., 4 Cyprus Road, Church End, N. 3

Wm. ROOKE ROBERTS, M.P.S., F.S.M.C.
174 Victoria Street, S.W.1. Tel.: Victoria 27.
Valuers for Purchase, Sale, Probate, Income Tax, Balance Sheet, &c.
Recommended by The British Drug Houses, Ltd., Messrs. Meggeson Ltd., Messrs. Barclay & Sons, Ltd., and many other leading Wholesale Houses. Valuers to the Association of Manufacturing Chemists.

BUSINESSES FOR DISPOSAL.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

LONDON, S.W.—Well-established, brisk middle-class Business in splendid position; all cash takings; handsomely fitted commanding look-up premises, with exceptionally fine storage room, and light, dry basement, with dark room; valuable lease; returns last year £4,000, increasing this year; yields handsome net profit after being well staffed; N.H.I. could be done if desired; full details and price to cash purchasers only. Apply "Country," (138/34), Office of this Paper.

LONDON, S.W.—Unopposed Village Business, on main road; suit qualified or unqualified; D.F. shop, nicely fitted; ill-health compels sale at early date; established 1908; present hands five years; returns (1919), £1,565 at 32% profit; Dental practice attached, and a little Photo; active, healthy man could increase 25% at once; good house and garden; every investigation courted, but curiosity-mongers please save stamps; price, including freehold premises (optional), £1,750, or offer; business alone around £1,250, or open to offer; heavily stocked. Apply "Unguentum" (140/4), Office of this Paper.

NEWCASTLE-ON-TYNE.—Light Retail and Dispensing Business and Premises, in best suburb; returns exceed £2,000; mahogany fittings; large cellar; house contains nine rooms; electric light throughout; banker's reference required; no agents. Price and full particulars, "Tyne" (140/17), Office of this Paper.

NORTH-EAST COAST.—First-class Business for Sale; proprietor retiring; returns £3,000; best position in town, corner opposite station; in present hands 25 years; freehold premises now in market; price about £1,800; large Prescribing, proprietary and profitable cash connection. Apply 138/19, Office of this Paper.

AMALGAMATION OR ABSORPTION.

FOR DISPOSAL, the controlling interest in a Limited Liability Company conducting a high-class Retail and Dispensing, with a Wholesale among Medical Men and Chemists; the business has been considered for over a century one of the foremost in English Pharmacy, and has shown for over twenty-five years considerable expansion; only those applicants who are prepared to give bankers' references need apply; the highest references given and also required; part of purchase money can be retained in the business as Debentures; total purchase £15,000 to £17,000. "Pharmacy" (43/10W), Office of this Paper.

IMPORTANT NOTICE.—For disposal as a going concern that far-famed proprietary household medicine and its compounds, knowns as "Barrett's Mandrake Specialities," established over 40 years; 30 gold and other medals, etc.; proprietor retiring this autumn; exceptional offer, chance seldom met with; stock, processes, registered trade-mark, goodwill, and thousands of unsolicited testimonials, to be sold outright, either by private treaty now or by tender later; every facility offered for full investigation to bona-fide purchasers. Apply, with bankers' references, to Professor Joshua Barrett, F.E.S.S., Mandrake House, 26 Beechfield Avenue, Blackpool.

PARTNERSHIPS.

PHARMACIST, highly qualified, held important managing and technical positions largest companies, now desires small direct interest in Wholesale or Retail business; unusual knowledge whole Drug trade, especially Buying, Manufacturing, Testing, Photography, new Medicinal and Toilet Remedies; exceptional chance for any needing active up-to-date assistance on satisfactory terms. Apply 139/37, Office of this Paper.

SALES BY AUCTION.

ESTATE OF DAVID LLEWELLYN, Deceased.

TO CHEMISTS, DRUGGISTS AND OTHERS.

Commanding Shop and Dwelling-house, Cheltenham Road (near Zetland Road Tramway Junction and Montpelier Railway Station), with Trade Fixtures, Fittings, and the goodwill of an old-established Business, with vacant possession.

MESSRS. C. H. TUCKER & CO., will SELL by AUCTION at the Full Moon Hotel, North Street, Bristol, on MONDAY, the 19th July, 1920, at 7 p.m. precisely, the eligible:

SHOP AND DWELLING-HOUSE,

No. 210 CHELTENHAM ROAD, for many years occupied by the above deceased, comprising double-fronted shops with parlour, kitchen, scullery, store house and backlet, with five rooms over in which for upwards of 20 years a well-established Chemist's and Druggist's business has been successfully carried on. All the Trade Fixtures, Furniture, and Fittings will be included in the Sale, but the stock will be sold at valuation. The premises front a highly important main business thoroughfare close to the junction of several main roads, and command an extensive passing traffic, whilst it is surrounded by large and residential districts.

The property is held from the 29th September, 1871, for the residue of a term of 1,000 years, except the last three days, at an apportioned rent of £6 per annum.

For cards to view and further particulars apply to the Auctioneer, St. Stephen Street, or to Fairfax Spofforth, Solicitor, No. 24 Broad Street, Bristol.

BUSINESSES WANTED.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

NEWCASTLE-ON-TYNE or District.—Chemist's Business wanted to purchase. Write full particulars to "Chemist," 16 Cavendish Place, Jesmond, Newcastle-on-Tyne.

A MEDICAL man (ex-Chemist and Druggist) offers £5 for information if acted upon of an opening to practice. "Confidential" (138/25), Office of this Paper.

CHEMIST-DRUGGIST; unopposed; populous S.W. suburb; well-fitted shop; good trade and living accommodation; nice garden; returns £3,000 per annum; owner 10 years; bargain, £2,000, includes large valuable stock, etc. Write Durham, 177 Norbury Crescent, S.W. 16.

REQUIRED, sound Chemist's Business, in S. Wales, industrial centre, where Optics is or might be worked to one's advantage. Reply in confidence, 135/28, Office of this Paper.

SMALL or neglected Business required or Partnership arrangement with principal who desires to "ease up" or keep financial interest only. Drug store suitable for Pharmacy entertained if living accommodation available. "Chemist" (135/38), Office of this Paper.

VILLAGE BUSINESS.—Wanted, a genuine little Business, with a good house and garden, country or seaside, in South-Western county; neglected one with prospects of improvement would be entertained. Reply, with full particulars, in confidence, to Hooper, Burrell, Saltash, Cornwall.

WANTED (immediately), good-class Business in main thoroughfare; London, Home County, or South Coast; or would entertain partnership in large concern; cash immediately available. Particulars in strict confidence to "Chemist" (138/38), Office of this Paper.

WANTED, on South Coast or healthy suburb or small seaside town, Drug Stores, suit unqualified, with good house and garden; cash immediately available; all replies treated with strictest confidence. Send all particulars, population, opposition, etc., to 139/13, Office of this Paper.

WANTED to purchase, good-class Retail and Dispensing Business, in or near London; comfortable house, with garden preferred; must bear every investigation; cash available up to £1,500; all replies treated in strict confidence. Apply 140/24, Office of this Paper.

TO LET.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

SHOP (D.F.), four rooms, etc., to Let (Woking); rent £55; growing district; good opening for Chemist. Owner, 87 Briarwood Road, Clapham, S.W. 4.

FOR SALE.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

FOR Sale, cheap, Automatic Filling Machine, suitable for Dry Powders; equal new; complete with feed hopper, revolving table, and auto-discharge; capacity about 1,000 packets per hour. Apply 138/18, Office of this Paper.

OFFERS wanted, about 1 cwt. 1917 Kent Hops; good condition; sample on application. Apply Lands, Ltd., Coalville.

PILL Plant, small, clean, power; consists of Werner Mass Mixer, Piping Press, Pill-cutting Machine, Coating Pan; galv. open Tank, 140 gall.; small Copper Coil. P.C.B. 84/14, Office of this Paper.

SOLID MAHOGANY Window Enclosure, 8 ft. long × 38"; another, 30" × 38"; two want reglazing; price 45s.; two Black Frames, with plate-glass, Frames 29" × 26½"; price 12s. 6d.; five Portable Coppers, 12-gallon capacity, cost £17 10s. each; accept £10; solid mahogany Showcase, with Writing Desk combined for Counter; price £5 5s.; on view London Chemical Company, Nicholson Road, Addiscombe.

APPRENTICESHIPS.

APPRENTICE (outdoors) wanted, age about 15-17, well educated, for good-class business, with Photographic Department; trade thoroughly taught under direct supervision of Principal; no premium; remuneration provided. Please send photo and full particulars as to age, etc., in first instance, McKee, Chemist, Churchfield Road, Acton, W. 3.

SITUATIONS OPEN.

RETAIL.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

ACCRINGTON.—Reliable Assistant required on August 2nd; must be capable Window-dresser and accurate and quick Dispenser; permanency and good salary to right man; full particulars in first letter as to salary, experience, references, etc., will be esteemed. Thornber, Accrington.

BARRY DOCKS (GLAM.).—Unqualified Assistant required at once. Apply, stating full particulars of experience, salary required, and enclose photo if possible, W. T. Hicks & Co., 28 Duke Street, Cardiff.

BIRKENHEAD.—Unqualified Assistant required immediately for Dispensing, Photographic, and quick Cash Retail, good Salesman and Window-dresser; give full particulars of age, height, experience, references, and salary required (outdoors) in first letter; good prospects and permanency for the right man. Cooper, 80 Argyle Street, Birkenhead.

FOLKESTONE.—Wanted (at once), Junior Assistant, experienced in first-class Dispensing and Retail. Please give full particulars of experience and state salary required (outdoors) to Hall & King, Chemists, Folkestone.

KENSINGTON, W. 8.—Required, on July 31st, Junior Assistant (male), age about 22; one who has been apprenticed in good-class business preferred. Kindly state age, height, experience, and salary required (outdoors), to John F. Harrington, 15 Kensington High Street.

LONDON, N.—Unqualified lady Assistant, with experience of quick Chemist's business. Full particulars and salary required, 92 Packington Street, Islington.

LONDON, S.W.—Evening assistance required; Monday, Tuesday, Wednesday, and Friday, 6-8; Saturday, 3-8; Sunday, one in three, 6-7 p.m. Holt Green, South Kensington Station.

LONDON, W.—A competent Assistant required; one accustomed to West-End business preferred. Write or call, Rouse & Co., 12 Wigmore Street, W.

LONDON, W.—Qualified Manager (outdoors); active; accustomed to Store trade and Photographic. State age, experience, and salary required, 140/2, Office of this Paper.

NEWCASTLE-UPON-TYNE EDUCATION COMMITTEE.

RUTHERFORD TECHNICAL COLLEGE.

Principal: C. L. Eclair-Heath, Esq., Wh.Sc., A.M.I.M.E.
The College Council invites applications for the following additional appointment, duties to commence early in September 1920:—

LECTURER IN PHARMACY. Salary £350.

Candidates should have passed the Major Examination of the Pharmaceutical Society, have had good experience in General Pharmacy and Chemistry, should be able to teach Botany, and to assist with Chemistry.

Forms of application (which may be obtained by sending a stamped addressed foolscap envelope to the undersigned) must be returned by Monday, 19th July, 1920, to:—

THOS. WALLING,
Director of Education.

Education Offices,
Northumberland Road.

OLDHAM.—Wanted, smart young lady Assistant for quick cash trade; good Stockkeeper, etc. Apply, stating age, experience, references, and salary required, to 138/35, Office of this Paper.

SHEFFIELD.—Qualified Assistant, about 24 years of age, to manage Branch, Light Retail and Dispensing; moderate hours. Full particulars, age, experience, salary required, etc., to F. Medley, Pharmacist, 500 Barnsley Road.

SOUTH OF ENGLAND.—Assistant required; free removal; permanency, with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

A YOUNG, qualified Manager required (outdoors) for branch. Please state age, experience, and salary required, Gadd & Son, 1 Harleyford Road, Vauxhall.

ASSISTANT in old-established Dispensing business; 30 to 40; mostly for Dispensing General Retail; no N.H.I. or Photography. Particulars, height, salary required, and photo, to Wootton & Son, Chemists, Margate.

ASSISTANT, unqualified, for Mixed General business, in busy Lancashire town; age from 20 to 26; permanency to suitable man. Apply, stating age, height, and salary required, with usual particulars as to experience, etc., to 140/23, Office of this Paper.

BRANCH Manager wanted (early in August) for quick Cash Retail, with N.H.I. Dispensing and Photography; energetic man paid preferably salary and commission; please send usual particulars, with photo; state salary expected. Chas. Thompson & Sons, Chemists, 159 Stratford Road, Birmingham.

JUNIOR Assistant (outdoors); energetic and trustworthy; permanency; good prospects for suitable applicant; hours 9 to 7.30, Thursday 1, Friday 8, Saturday 8.30; no Sunday duty; state age, height, experience, references, salary required, and when disengaged; enclose photo, to be returned. L. J. Reade, Pharmaceutical Chemist, 17 Lichfield Street, Wolverhampton.

JUNIOR Assistant required, quick and accurate Dispenser, for good-class Family trade; short hours; no Sunday duty; outdoors. Apply, with full particulars and salary required, to Woollatt & Coggin, Chemists, Ware, Herts.

LEWIS & BURROWS have a vacancy for a competent Assistant accustomed to good-class business; outdoors; no Sunday duty. Apply 146 Holborn Bars, E.C. 1.

LOCUM (August 4th to 18th); knowledge of Photo trade. Full particulars, or call, Matthews, 6 Fortess Road, Kentish Town, N.W. 5.

MANAGING Assistant wanted, married, to live on premises; must have had good experience in high-class Retail and Dispensing, with Photography; references must bear strictest investigation. Apply T. E. Savage, 30 Broadway, Crouch End, N.

PARKE'S DRUG STORES, LTD., require a qualified man immediately; progressive wage for progressive man; applicant must have good London experience; knowledge of Photography and Optics an advantage. Apply, by letter only, stating age, height, and experience, to 65 Harmood Street, Kentish Town, N.W. 1.

QUALIFIED Manager required (London, W.); good Prescriber; outdoors. Apply 138/15, Office of this Paper.

QUALIFIED, male, Minor qualification, for Dispensing only; easy hours; only experienced men need apply. State when at liberty and salary required to Manager, Taylor's Drug Co., Ltd., 69 Market Street, Manchester.

SALESMAN wanted, with good experience and training in modern business methods; qualification not essential. Give full particulars of age, height, experience, salary required, and photograph, to Chave & Jackson, Ltd., Chemists, Hereford.

THE Northampton Friendly Societies Medical Institute require a fully qualified Dispenser as Locum, August 30th to September 12th, both dates inclusive. Apply, stating qualifications, terms, etc., to the Dispenser, 157 Colwyn Road.

WANTED at once, capable Assistant for high-class Pharmacy in pleasant seaside resort; easy hours; comfortable berth; outdoors; permanency to suitable applicant. Reply, with full particulars and salary required, to Rouse, Chemist, Swanage, Dorset.

WANTED, smart, unqualified Assistant for good-class store trade; South-West London; good Dispenser and Salesman essential; easy hours. Full particulars and salary required to 138/28, Office of this Paper.

WANTED, a young male Junior Assistant; one just out of his apprenticeship would suit; outdoors; no Sunday or Thursday evening duty; also a young lady Assistant, who must have had Counter experience; College experience an advantage, but not essential. The Prosser Roberts Co., Pharmaceutical Chemists, 323 Walworth Road, S.E.

WANTED, smart young qualified Assistant; must not be afraid of work; good experience and references essential; chiefly quick Store trade; permanency and good salary to right man; full particulars first letter. Hart, Chemist, Grimsby.

WANTED, competent Assistant, qualified or unqualified, principally for the Counter in a high-class Dispensing business in N.W. District. Apply to X. Y. Z. (140/15), Office of this Paper.

YOUNG Lady wanted, as Window-dresser and Assistant Stockkeeper, in good business in Tunbridge Wells; some experience necessary. Apply, with full particulars, to 140/6, Office of this Paper.

WHOLESALE.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A RELIABLE Traveller will shortly be required to represent established London firm of Proprietary Article Manufactures; accustomed to calling on Chemists and Druggists (Wholesale and Retail) preferred; whole-time services required; salary, expenses, and commission in return. Reply, by letter only, with full particulars as to age, experience, and when disengaged, "O.," c/o Barker, Drabble & Co., 88 Chancery Lane, W.C.

DRY ROOM.—Wanted, qualified Assistant to take charge and to put up poisons. Apply, full details of age, salary, etc., to 35/23S, Office of this Paper.

DRUGGISTS' SUNDRIES.—Young woman, with good knowledge of Sundries and Surgical Sundries, required by Burgoyne, Burbidges & Co., Ltd., East Ham. Apply first by letter.

EXPERIENCED Chemist Representative wanted immediately for Manchester and Liverpool; good salary, with expenses and commission, for enterprising and energetic salesman; must reside in Manchester or Liverpool. Apply, giving full particulars, to 5/19C, Office of this Paper.

LADY Shorthand-Typist required by Howards & Sons, Ltd., Ilford.

MAJOR man required by Wholesale Drug House, South Coast, for testing and experimental work; well-fitted laboratory. Apply, in confidence, mentioning salary desired, experience, age, etc., 140/5, Office of this Paper.

MANAGER required by a firm of Manufacturing Perfumers in the Midlands; must be capable of taking sole charge, and have experience of the export trade. Reply, stating age, record, present situation, experience, references, and salary, 15/10J, Office of this Paper.

MESSRS. ARECO, LTD., 11 Southampton Row, High Holborn, London, W.C. 1, manufacturers, of high-grade French Perfumery and Toilet articles, have vacancies on their travelling staff for Representatives on the following territories:—

(1) Lancashire and Yorkshire.
(2) The Midlands.
(3) East Coast.
(4) South Coast.
(5) South Wales.
(6) Scotland.

Capable, energetic men with live connections, regular and consistent workers who can pioneer, follow up, and develop strong advertising propaganda, and produce results, only entertained.

Applications, which should state fully salary required, when disengaged, and details of experience, will be treated in strict confidence, and must be made in writing only, to Areco, Ltd., 11 Southampton Row, High Holborn, London, W.C. 1.

PACKER.—Sub-Foreman wanted in a London Wholesale House; must be an experienced Packer (export). Apply, stating full particulars of experience and wages expected, to 7/12D, Office of this Paper.

PACKERS for export; men used to packing Drugs and Sundries for shipment required by Burgoyne, Burbidges & Co., Ltd., East Ham. Apply first by letter.

QUALIFIED Manager wanted immediately; London experience necessary; must be energetic and progressive; salary £6 10s. and commission. Apply, stating age and full experience, to "Galen" (29/13P), Office of this Paper.

REPRESENTATIVE required for North of England with good connection amongst Chemists, Drugs, Packed Drugs, Tablets, etc.; salary and commission to suitable man. Apply by letter, giving full particulars, P.C.B. 83/33, Office of this Paper.

REQUIRED, a young man, experienced in the production of Compressed Face Powders; good wages and prospects offered to experienced, energetic, and reliable worker. Apply in first instance to 28/20M, Office of this Paper.

WANTED, by a provincial firm of Wholesnle Druggists, an intelligent and energetic Clerk accustomed to the Drug and Patent Medicine business. Apply, stating age, experience, and salary required, to "Ang" (21/6L), Office of this Paper.

WET-COUNTER Hand required; Wholesale experience. Apply by letter, or personally between 12 and 1 o'clock, to Osborne, Garrett & Co., Ltd., 51-54 Frith Street, London, W. 1.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

SOUTH AFRICA.—Young, qualified Assistants open to accept situations in South Africa, should apply to Lennon, Limited, 12-14 Lafone Street, Tower Bridge, London, S.E. 1. South Africa is prosperous and advancing steadily; the climate is particularly fine and healthy; cost of living moderate.

REPRESENTATIVES.—Pharmacists or unqualified Assistants speaking French or Spanish fluently and desirous of seeking a career abroad are invited to apply for appointments on the foreign travelling staff of London firm; previous travelling experience not essential; young and unmarried men preferred. Apply, with full particulars of age, qualifications, previous experience, etc., to 4/37B, Office of this Paper.

SITUATIONS WANTED.

[HOME.]

RETAIL.

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A.A.A.—PART-TIME employment desired; experienced Dispenser; N.H.I. not objected to; good Counterman, expert Window-dresser; excellent references; evenings from 6 p.m., Saturdays from 2 p.m.; must be easily reached from Oxford Cirous. "W. W.," 21 Acton Lane, Harlesden, N.W. 10.

A QUALIFIED Chemist desires any position of trust, Manager or Locum, early in July; held present position for 8½ years. 13 Coniger Road, Parson's Green, S.W. 6.

A QUALIFIED Chemist, middle-age, seeks engagement, provincial preferred, in any responsible position; Locum or permanency; sound and varied experience in all classes of business, town and country; thoroughly competent, steady, and reliable; well recommended; disengaged. Apply 139/22, Office of this Paper.

ACTIVE Pharmacist (36) desires change shortly; 8 years Branch Managership; first-class West-End Dispensing experience; good-class London district preferred. "M.P.S." (139/14), Office of this Paper.

ASSISTANT, unqualified; eight years' experience, Dispensing and Counter; tall, 27; at once until the end of September; seaside preferred; state wages. Apply 137/22, Office of this Paper.

ASSISTANT, Hall; Continental and home experience; Locum or permanent; now free. Bates, 2 Leigh Park Road, Leigh-on-Sea.

ASSISTANT or Manager; 26; Minor; disengaged; good references; Nottinghamshire or Derbyshire preferred; please state particulars. Apply 137/9, Office of this Paper.

ASSISTANT, first-class experience; London district; at liberty. "B.," 37 Hillcrest Road, Walthamstow, E. 17.

ASSISTANT, unqualified, disengaged, desires situation until middle of September; eight years' good Counter and Dispensing experience; Midland district preferred, but not essential. Apply "J.," 88 Winstanley Road, Wellingborough.

ASSISTANT; 32; unqualified; Dispensing, Counter, Photographic; disengaged; Yorkshire preferred. "Tyke," 2 Greenhill Gardens, Worcester.

ASSISTANT (lady) seeks situation in good Dispensing business; excellent Dispensing experience. Seymour, 60 George Street, Ryde, I.W.

ASSISTANT, unqualified, 23, seeks situation in City or West End; disengaged; good all-round experience. Apply S. C. S., 860 Salusbury Road, Brondesbury, N.W. 6.

ASSISTANT (32), tall, experienced in high-class Dispensing and Counter; disengaged July 19th; unqualified. "Chemist," 144 Maybury Road, Woking.

ASSISTANT (40); well up in Dispensing, Counter, and Photography; unqualified; temporary or permanent; disengaged. "G." (138/39), Office of this Paper.

ASSISTANT, reliable, unqualified, desires post until end September; ten years' good-class all-round experience; West End London or City preferred; good appearance; height 6 ft.; splendid references. P.C.B. 84/23, Office of this Paper.

ASSISTANT, Counter, Windows, Stock, Light Dispensing; or manage Drug Stores; reasonable salary; excellent experience. T. (140/16), Office of this Paper.

ASSISTANT, unqualified; capable Dispenser; ex-R.A.M.C.; Lincolnshire or Nottinghamshire preferred. "Disengaged" (139/28), Office of this Paper.

ASSISTANT.—Lady requires post; thoroughly experienced and reliable; accustomed to high-class Retail and Dispensing. Please state particulars, 140/33, Office of this Paper.

ASSISTANT, unqualified, desires situation in good-class Pharmacy; smart Salesman; good knowledge Photography. Write "S. S.," 36 Willingdon Road, Eastbourne.

BIRKENHEAD OR DISTRICT.—Unqualified; 28; good Retail, Dispensing, Photographic experience; excellent references; disengaged. "Statim," 17 Albert Road, Birkenhead.

BRANCH Management or Locum; middle-age; varied experience; active, energetic, careful; any class business. "Chemist," 68 Addison Street, Nottingham.

BRISTOL, BATH or NEIGHBOURHOOD.—Part-time Assistantship in a medium-class business sought by reliable man reading for examination; terms mutually arranged. Apply 138/8, Office of this Paper.

DISPENSER (lady), unqualified, requires post; Doctor or Chemist; good experience; thoroughly reliable. Apply 134/36, Office of this Paper.

DISPENSER (unqualified), age 23, 7 years' experience, requires season place; if local, wage £3. Stober, 28 Harlow Moor Drive, Harrogate.

DISPENSER, Indy (Hall), desires Locum or permanency; Hospital experience; disengaged July 19th. Leeder, Arnold & Sons, King's Road, Southsea.

DISPENSER-BOOKKEEPER to Doctor, disengaged August; Minor; Surgery, Dressings, and Extractions; abstainer; married; sound references. Apply 140/35, Office of this Paper.

EXPERIENCED lady Dispenser requires post; day-time preferred; Hall qualification; Bookkeeping, Typewriting. "E. B.," 7 Carleton Road, N. 7.

EXPERIENCED Chemist undertakes accurate Pricing of Stock, or other Clerical work. Greig, 10 Loraine Road, London, N. 7.

IMMEDIATELY.—Assistant Manager or Locum; thoroughly experienced, competent, reliable, industrious; reasonable terms; satisfaction certain. "Disengaged," 239 Camberwell New Road, S.E. 5.

IMPROVER or Junior (20); indoors preferred; good references. P.C.B. 84/12, Office of this Paper.

IN Liverpool district, over middle-age, qualified; temporary or permanent; Assistant or Manager. Wilson, c/o E. S. Giles, Ltd., 105 Scotland Road, Liverpool.

JUNIOR (21), well recommended and experienced in Counter work, N.H.I., and Veterinary, requires progressive berth; London district preferred. "Junior," Dawsons (Chemists), Ltd., High Street, Ponders End, Middlesex.

JUNIOR (23); 7 years' experience; good Counterman, Photography, N.H.I. and private Dispensing; London or South Coast. H. Thompson, 28 Rossiter Road, Balham, S.W. 12.

LADY Dispenser, Hall qualification, London Matric, requires Locum or permanent post with Doctor or in Hospital at once. Apply P.C.B. 83/15, Office of this Paper.

LADY Dispenser (Hall) desires morning or evening Dispensing, or both; Doctor or Chemist; first-class Dispensing experience and references. "W.," Knowles' Pharmacy, Ltd., 40 Seymour Street, Euston, N.W. 1.

LADY Dispenser; Hall qualification; experienced; part time or easy hours; Caterham district, or London. Miss Truby, Brynhelig, Caterham.

LADY Dispenser, qualified, experienced, wants post. Benson, 501 Hornsey Road, London, N. 19.

LADY Dispenser, Hall, desires post; good experience Counter and Dispensing; Locum or permanency. B., Mill House, Albury, Surrey.

LADY Dispenser (Hall); permanent post; W. Midlands; experienced; four years in good-class business, also with Doctor; good references; help with Stock, Books, etc. Write 139/8, Office of this Paper.

LADY desires post, Chemist; 3 years' experience Counter, Stock, Photographics; excellent knowledge Dispensing; London district, W.C. preferred. Apply 140/39, Office of this Paper.

LADY, Hall certificate, three years' experience with Chemist, requires post; Chemist or Doctor. Apply 137/18, Office of this Paper.

LADY, Hall qualification, desires post. Miss Harris, 126 Thurlow Park Road, West Dulwich, S.E. 21.

LOCUM, 46, experienced, take entire charge; abstainer; disengaged August 23rd onwards; moderate terms. "Chemicus," 2 Christian Road, Preston.

LOCUM, qualified, 26, disengaged until September; please state salary offered. Apply 137/90, Office of this Paper.

LOCUM, D.B.O.A., F.I.O., objective sight-testing, has three weeks open in August; a thoroughly reliable man, able to handle a large concern during absence of principal; Drugs and Photographics also if required. "P. D." (138/14), Office of this Paper.

LOCUM; wide experience; highest references; well recommended. Brown, Fort House, Berry Head, Brixham, Devon.

LOCUM or Manager, qualified, disengaged July 26th; steady and reliable. Stone, c/o Mr. Adams, 56 Marine Parade, Brighton.

LOCUM; qualified; middle-aged; exceptionally good all-round experience, London and provincial; satisfactory references. Terms, "Idem," Stanley House, Clapham Park Road, Clapham, S.W.

LOCUM or permanency; unqualified; married; 20 years' good-class experience; excellent references; would consider travelling or clerical work. "Adrenalin" (139/31), Office of this Paper.

LOCUM or permanency; distance no object; unqualified; 40; disengaged shortly; 25 years' all-round experience; state salary. "Reliable," 1 Belle Vue, Pinner, Middlesex.

MANAGER or Senior; qualified; 38; best class experience as Assistant and Manager; fluent French; town or country. Scott, 57 Cartwright Gardens, W.C. 1.

MANAGER or Head Dispenser; good experience; London or suburbs preferred. P.C.B. 84/10, Office of this Paper.

MANAGER, Assistant, or Locum; London, West, City, or good-class suburb; qualified; disengaged August 1. "Cutex" (140/37), Office of this Paper.

MANAGER; qualified; married; permanency; invest, or view to succession; disengaged August; long and varied experience; knowledge of French. Apply 140/25, Office of this Paper.

MANCHESTER, BLACKPOOL, OR SOUTHPORT.—Qualified Dispenser; 23; highest references; disengaged; Counter or Dispensing. Mellor, 45a Market Street, Manchester.

PART- or full-time required till August; London or near; experienced; 36; abstainer; excellent references. Vaughan, 29 Stilehall Gardens, W. 4.

QUALIFIED Manager; Locum or permanent; Midlands, S.E. Coast, and London experience; private or store; disengaged July 26th; good references. Furnival, 28 Melrose Avenue, Cricklewood.

QUALIFIED Manager; consistently good references; returns trebled during present management of Light Retail and Dispensing branch; practical Photographer, and used to N.H.I. work; Midlands or S. of England preferred; disengaged September. England, 23 St. John's, Worcester.

QUALIFIED; 32; single; good references. "R. A. C.," 10 Burnley Road, Stockwell, S.W. 9.

QUALIFIED Manager or Senior; 35; good London experience; interview arranged. "Locum" (137/27), Office of this Paper.

QUALIFIED, 25, seven years' experience, desires permanency; disengaged September; excellent references. State salary, etc., to "Calumba," Bryndesi, Hereford Road, Abergavenny.

QUALIFIED Optician seeks position as Dispenser and Refractionist; 10 years' high-class experience; excellent references. State hours and salary to M. Cooper, 125 Lewisham Road, S.E. 13.

QUALIFIED, 27, married, desires position as Branch Manager; Eastern Counties preferred; experienced town and country, with Photography; excellent references. Webb, 101 Baxter Avenue, Southend-on-Sea.

QUALIFIED Manager or Locum; disengaged; good all-round experience; town or country. J. F., 146 High Road, East Finchley, N. 2.

SALESWOMAN, five years' experience, desires situation; thorough knowledge of Counter and Window-dressing. Reply to 134/35, Office of this Paper.

THOROUGHLY competent qualified Locum for fortnight August or September, preferably latter. P.C.B. 84/13, Office of this Paper.

UNQUALIFIED, age 34, seeks situation month's time, Manchester, Wolverhampton, or Staffordshire; quick, neat, and accurate Dispenser; exceptional references. Apply 138/9, Office of this Paper.

UNQUALIFIED Assistant desires permanency in Light Retail; trustworthy, moderate salary, good references. Particulars to Lloyd, 24 Bartlet Street, Caerphilly, S. Wales.

UNQUALIFIED; 38; expert Salesman and Window-dresser, Dispensing, Photographic; capable of giving efficient business help or taking entire charge. 5 Shaftesbury Avenue, New Barnet, Herts.

UNQUALIFIED (37); first-class Dispensing, Counter, and Photographic; 8 years' West-End Store experience; tall; married; highest references; London only. Ypres, 130 Camden Street, Camden Town, N.W. 1.

UNQUALIFIED, 35, abstainer, industrious, varied experience, requires post; small town, mining village; manage Drug Stores; reasonable salary. Apply 139/21, Office of this Paper.

YOUNG Lady requires position; Chemist or Doctor; Dispensing; full or part time; unqualified; 9 years' experience private, N.H.I. Dispensing, quick Counter; free October; London district. Jackson, 56 Mount Nod Road, Streatham Hill, S.W.

YOUNG lady, Hall certificate, seeks holiday post month of August. Nicholas, Cwmavon, Glam.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

WHOLESALE.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A CAPABLE and trustworthy Chemist, Minor qualification, middle-age, energetic, sound business experience, requires situation, provincial preferred, in any position of responsibility; Laboratory or Warehouse; well recommended. Apply 139/220, Office of this Paper.

ADVERTISER, 27, resident in Birmingham, desires to represent good house in Midlands; connection in this territory. Apply 137/16, Office of this Paper.

ADVERTISER (28) requires responsible position; thorough knowledge of Patent Medicines and Sundries; used to all buying, office routine, correspondence, and control of staff. Reply, stating salary offered, P.C.B. 80/18, Office of this Paper.

CHEMIST.—Manager of standing, Pharmacist, Graduate, requires responsible position immediately; finest experience; wide knowledge Analysis, large Manufacture, Adjuncts, Costing, Buying, Sales, Organisation. Apply 139/36, Office of this Paper.

EXPERIENCED Sales and Advertising Manager wants change; good record in pushing Proprietaries, preparing literature, Press advertisements, controlling Travellers, correspondence, etc.; moderate salary and interest in turnover. Apply P.C.B. 84/3, Office of this Paper.

GENTLEMAN, 32, 12 years' experience with Retail Chemists, requires position as Traveller or Agent with a good firm. "F." (139/32), Office of this Paper.

MAN (35), married, seeks employment any capacity; 14 years Druggists' Sundries trade; willing, hard worker. Write M., 74 Alderney Street, S.W. 1.

REPRESENTATIVE, working Eastern Counties, wishes to represent good house; has first-class connection with Chemists, is a proved Salesman, and has excellent references. Apply 139/15, Office of this Paper.

REPRESENTATIVE desires change; very big connection Midlands, Lancs, and Yorks; salary or commission; Drugs, Proprietaries, or Sundries. Address "Salesman" (139/27), Office of this Paper.

SCOTLAND and Lancashire.—Progressive representative wants high-class house of manufacturers; Brushes, Toilet Preparations. "M. D. E." (140/13), Office of this Paper.

SMART business man, thoroughly acquainted with South Wales and West of England districts, would represent firm of repute on commission basis, or would entertain salary and commission. "Drugs" (140/9), Office of this Paper.

TRAVELLER requires position with good firm; thorough knowledge of Drugs, Packed Goods, Essences, Perfumery, Essential Oils; sound connection. Apply 140/1, Office of this Paper.

WHOLESALE Business, with 2 Travellers, sound connection, calling on London and district Chemists every 6 weeks, would like to offer goods of another firm, where few or no samples need be carried, on commission basis; no unknown preparations entertained. "Energy" (139/24), Office of this Paper.

YOUNG man, well educated, four years' Retail experience, seeks position with Wholesale or Manufacturing Chemists. Apply "S. S." (139/30), Office of this Paper.

SITUATIONS WANTED.

(Colonial, Indian and Foreign.)

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

MALAY STATES.—Qualified, unmarried, young, desires post; best all-round experience and references, including West End. Salary and prospects to J. L. B. (P.C.B. 84/8), Office of this Paper.

MISCELLANEOUS.

10s. for 60 words; 1s. for every additional 10 words or less.

MCADAM & TUCKNISS, Stock and Share Brokers, Bank Chambers, Blackheath, S.E. 3. Established 1898. Telephone: 81 Lee Green.—Shares for Sale (free of commission, subject): 10 Allenbury "B" 6% Pf., 16s. 4½d.; 185 Baiss Bros. Pf., 12s. 9d., c.d.; 500 Evans Lescher Pf., 15s. 6d.; 400 Crosse & Blackwell 8% Pf., 20s.; 500 Lever 8% Pf., 20s. 7½d.; 200 Peek Frean 8% Pf., 22s.; 200 Van den Bergh 7% Pf., 18s. 6d.; 500 Farrow's Bank, 10s. pd., 8s. 6d., c.d.—Shares wanted (subject): Allenburys'; Camwal; Wright Layman Pf.—Bankers, London County and Westminster.

A LONDON firm of Chemical Manufacturers, with suitable premises and staff, desire to co-operate with Wholesalers or others to manufacture and pack additional lines; Wet or Dry Goods immaterial. What offers, in confidence, to 138/10, Office of this Paper.

MANUFACTURER solicits offers for about 6/8 cwt. Aspirin B.P. quality; ready about the end of July. Apply 1/11A, Office of this Paper.

ODD LOTS.—200 lb. of Gum Mastic, 10d. lb.; 10 cwt. Magenta, 2s. 6d. lb.; 75 lb. Glue, 8d. lb.; 1 cwt. Crown Aniline Dye, 6s. lb.; 9 doz. 10-oz. Poison Bottles, 10s.; also Pill-making plant and machinery. Lewis Batley & Co., Stockport.

SHOP-FITTINGS, comprising Drug Fitting, 14 feet long, with glass-labelled drug drawers, stock cupboards, lockers, shelving, and poison cupboard; 12-feet mahogany and plate-glass Wall Case; 16-feet mahogany and plate-glass Serving Counter, with sliding doors; Dispensing Screen and Counter; and 6-feet Wall Showcase. Particulars on application, Philip Josephs & Sons, Ltd., 93 Old Street, London, E.C. 1.

EXCHANGE COLUMN.

Twopence per word: Minimum 2s.

FOR DISPOSAL.

BOOKS AND PERIODICALS.

"MODERN Inorganic Chemistry," 10s. 6d.; "Manual of Zoology," 16s.; "Manual of Physics Medical Students"; Glazebrook's "Light and Heat," 7s. 6d.; as new; what offers? "Medico," The Pharmacy, Moreton, Birkenhead.

DRUGS AND CHEMICALS.

2 LB. Ext. Ergot Liq., B.P., 1914; Phys. tested; 45s. lb.; carriage paid. Shaw, Chemist, Greenock.

5 LB. Bism. Carb., 1 lb. each Bism. Subnit., Iodof. Pulv., Iodin. Resub., 2 lb. Pot. Iodid., 2 drachms Atrop. Sulph. Apply 140/20, Office of this Paper.

OPTICAL AND PHOTOGRAPHIC.

OFFERS wanted for Swift Microscope in mahogany case, ¼, ⅙ and $\frac{1}{12}$ oil immersion lens, Abbey condenser; perfect condition. Tranmer, Smethwick.

WANTED.

HANGING Carboy, height 24", circum. 34". Fig. 587 Ayrton's Catalogue. Eccles, Athy.

CHEMIST'S Fittings, complete or part; Scales, Till, and any accessories. Particulars with price, Shackleton, Abergavenny, Mon.

"CHEMIST and Druggist" for August 16, 1919; eightpence offered for perfect copies. "S. B." (15/15), Office of this Paper.

WANTED, second-hand Drawers, Shelving, etc., suitable for Storeroom. Particulars to Shaw, Chemist, 92 Packington Street, N. 1.

SODII Carb. and Sodii Sulph. Send offers to 115/40, Office of this Paper.

PHARMACEUTICAL Books wanted; cash offers on receipt. Gower, Bookseller, 41 Voltaire Road, Clapham.

WANTED, Radium Salt, pure or Residues, old Applicators, etc. Apply Harrison Glew, Radium Laboratories, 156 Clapham Road, S.W. 9.

THE CHEMIST'S COMPACT LIBRARY

MONEY-MAKING AND MONEY-SAVING BOOKS

Every Book by an Expert

Pharmaceutical Formulas

Being the "Chemist and Druggist's" book of useful recipes for the drug trade. By PETER MACEWAN, Pharm. Chem. F.C.S. Ninth edition, containing over 1,050 pages (Revised 1919)

Price 15s. *net, by post* 16s.

The Art of Dispensing

A treatise on the Methods and Processes involved in Compounding Medical Prescriptions, with Dictionaries of Incompatibles and New Remedies, and numerous Memoranda for Dispensers and Prescribers. (Ninth Edition.) By PETER MACEWAN, F.C.S., Pharmaceutical Chemist. (Revised 1919.)

Price 8s. *net, by post* 8s. 9d.

Veterinary Counter Practice

An indispensable book for chemists, whether urban or rural. It deals with the ailments of horses, cattle, sheep, pigs, dogs, and poultry. The seventh edition, like its predecessors, is by an experienced M.R.C.V.S. and includes much new matter. Contains 440 pages.

Price 6s. *net, by post* 6s. 9d.

Chemists' Windows

An illustrated treatise on the art of displaying pharmaceutical and allied goods in chemists' shop windows, with Chapters on ticket writing, the mechanics of moving devices, and business-promoting accessories. Contains 216 pages and 200 illustrations.

Price 3s. 6d., *by post* 4s.

Diseases and Remedies

Chemists and Druggists need to know something about diseases and their treatment, and this book fills the gap between books of domestic medicine and standard works for medical practitioners. A new edition (the fourth) is now ready. It has been brought up to date and enlarged to 264 pages. (5th Edition.)

Price 5s. *net, by post* 5s. 6d.

Guide to Preliminary Examinations

Deals with English, Latin, Arithmetic, Algebra, Euclid, and French, as required in the principal examinations recognised by chemical, medical and pharmaceutical bodies. (Revised 1919.)

Price 3s. 6d. *net, by post* 3s. 11d.

Minor Experiences

Gives over fifty candidates' descriptions of the Minor Examination as conducted by the Boards of Examiners in London and Edinburgh prefaced by the official syllabus and other useful information. Indispensable to all chemists' apprentices and assistants who have not qualified, as it is the only book giving the questions and work of the Examination. Contains 116 pages.

Price 2s. 6d. *net, by post* 2s. 10d.

Practical Methods of Urine Analysis

This department of chemistry is one which those behind the drug counter can profitably cultivate. The object of this book is to give chemists exactly the information they want on the subject. The book is written by a working pharmacist who is expert in the subject, and has been revised by a M.B., Lond. (3rd Ed., 1914.)

Price 3s. 6d. *net, by post* 3s. 10d.

The Chemist's Dictionary of Medical Terms and Treatment

This book measures 5¾ inches by 3¾ inches, and contains 308 printed pages. There is no medical dictionary so compact which gives so much up-to-date information. It goes straight to the point—which is what chemists most need when they have to answer medical questions asked by customers. (3rd Edition).

Price 3s. 6d. *net, by post* 3s. 10d.

The Chemist's Dictionary of Synonyms and Trade Names

Uniform with the "Chemist's Dictionary." Contains 220 pages

Price 3s. *net, by post* 3s. 4d.

Provincial Hospital Pharmacopœias

Uniform with the "Chemist's Dictionary," contains 296 pages and consists of formulas for medical prescriptions used in twenty-two hospitals and infirmaries in Great Britain outside the London district.

Price 3s. *net, by post* 3s. 4d.

Wootton's Chronicles of Pharmacy

In two vols., maroon cloth, comprising 770 pages.

Price 10s. 6d. *net, by post* 11s. 6d.

¶ FOREIGN CORRESPONDENTS are requested to note that the postage is 2d. extra for each book.

May be obtained at the published prices from any Wholesale Drug or Sundries House, or from

THE CHEMIST & DRUGGIST, 42 CANNON ST., LONDON, E.C.4

Branch Offices: MELBOURNE and SYDNEY, AUSTRALIA.

Printed for the Proprietors by SPOTTISWOODE, BALLANTYNE & CO., LTD., New Street Square, E.C.4; and Published by the Proprietors, Morgan Brothers (Publishers), Ltd., at 42 Cannon Street, in the City of London.—*July* 10, 1920. [124]

Alcresta Tablets of Ipecac, Lilly

UNCOATED, DISINTEGRATING
EASY TO TAKE, CAUSE NO NAUSEA

Permit the Oral Administration of Massive Doses of Ipecac

EACH TABLET contains the alkaloids of ten grains of Ipecac, U. S. P., combined with a form of hydrated aluminum silicate. The tablet disintegrates readily, but the compound passes through the acid juices of the stomach unchanged and liberates the Ipecac alkaloids in the alkaline secretions of the intestines; thus the nausea and vomiting are avoided.

Prescribed by Both Physicians and Dentists

BY PHYSICIANS—In Amebic Dysentery, Amebic Infections of the Tonsils, Typhoid Fever and various Intestinal Disturbances.

BY DENTISTS—In Pyorrhea as an aid to dental instrumentation in which they are as efficient as hypodermic injections of emetine.

Supplied in bottles of 40 and 500 Tablets

Agents for Great Britain, JOHN MORGAN RICHARDS & SONS, Ltd., 46-47 Holborn Viaduct, London, E. C.

Lilly's Empty Gelatin Capsules

For Both Human and Veterinary Use

Eight sizes for human use—three sizes for veterinary use—one-fourth, one-half and one ounce capacities. Clean, firm, thin-walled, highly transparent, quickly soluble, easily joined, close securely. Carried in stock uncolored and pink.

Many of the sizes are satisfactory containers for small articles, having certain advantages over boxes and glass vials

PRICES ON REQUEST

ELI LILLY & COMPANY

Principal Office and Laboratories: INDIANAPOLIS, U. S. A.

THE BRITISH DRUG HOUSES LTD.

'EASTERN FOAM'

Our Summer Advertising Campaign is now in full operation, including our offer of samples, hundreds of applications for which are received daily.

A greatly increased demand is already apparent, and we trust that pharmacists will secure stocks in good time.

Please write for our **Special Display Terms** for parcels of 6 dozen and upwards, carriage paid.

Retail Prices (P.A.T.A.)

Standard Package, 1s. 4d.

Sample size (in aluminium box), 3d.

22-30, Graham Street, City Road, LONDON, N.1.

Printed for the Proprietors by SPOTTISWOODE, BALLANTYNE & CO., LTD., New Street Square, E.C. 4, and Published by the Proprietors, Morgan Brothers (Publishers), Ltd., at 42 Cannon Street, in the City of London.—*July* 10, 1920.